

FINAL Phase II Environmental Site Assessment Report

**Former Naval Training Center Bainbridge
Port Deposit, MD**

AOC 1a (Water Tower 689)

Contract: EP-W-07-094

Task Award #0011 and #0012

Prepared for:

U.S. Environmental Protection Agency
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October 2010

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October 2010

(b) (4)

Project Manager, EA

27 October 2010
Date

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Project Manager, ARGO

27 October 2010
Date

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Program Manager, ARGO

27 October 2010
Date


Drew Lausch
Task Order Project Officer
U.S. Environmental Protection Agency

10/28/10
Date

This report presents the results of the Phase II Environmental Site Assessment (ESA) activities conducted at Area of Concern (AOC) 1a (Water Tower 689), which is located in Development Priority Area 2 of the Naval Training Center – Bainbridge (NTCB) property. The NTCB property (the “site”) is located in Port Deposit, Maryland 21904. AOC 1a is approximately 7,100 square feet (sf) in size. This report is presented as Attachment 1 of the Former Naval Training Center Bainbridge Phase II Environmental Site Assessment Report. It should be noted that the Field Sampling Plan (FSP) dated April 2010 included both Water Tower 689 and Water Tower 1054 as both are associated with AOC 1a. However, for purposes of this Phase II ESA, only Water Tower 689 was sampled. Water Tower 1054 is located within Development Priority Area 5, which is a development priority area where the AOCs were not sampled as part of the Phase II ESA.

BACKGROUND

A water tower formerly existed at this area. Soil sampling was performed at this AOC in March 1997 (EA 1999). Lead was detected in surface soil at concentrations exceeding the screening value (400 milligrams per kilogram [mg/kg]), and removal actions were performed. Soils were initially excavated in 6-inch (in.) lifts. Confirmation samples were collected from 0-6 in. below grade. Additional excavation was performed in 6- in. lifts if the confirmation sample results exceeded the cleanup level of 400 mg/kg. Approximately 450 tons of lead impacted soil from Water Tower 689 were excavated and disposed off base, which was from an approximate 7,100 sf area from 6-18 in. deep. Excavations for removal of lead-impacted soil deeper than approximately 12 in. were backfilled with sandy soil from the Old Landfill cap stripping work. Based upon the minimal ecological exposure determined in Final Ecological Risk Reviews for Areas of Concern, and minimal human health risk considerations, the Navy’s Finding of Suitability to Transfer (FOST) concluded that additional investigations and/or cleanup for AOC 1a were not necessary.

WORK PERFORMED

Sample grid point locations were identified based on a previous AOC figure (EA 1999) which highlighted this area, review of historical aerial photographs dated 1959, 1970, and 1975, 1981, 1987, 1998, 1999, and 2005 as provided by Environmental Data Resources, Inc. (EDR), and review of a 2008 Axis Geospatial, LLC aerial photograph on which the apparent central support base and eight surrounding support bases for the former water tower are visible.

Soil samples were collected on 13 and 18 May 2010. In accordance with the United States Environmental Protection Agency (USEPA) approved RFO #37 – Naval Training Center Bainbridge Field Sampling Plan Addendum #1 dated May 2010, the number of sample grid points was reduced from 10 to 5; sample grid points were randomly spread throughout the 10 previously identified grid points. As part of the original planning process for this AOC, sample grid points were laid out using a 35 ft grid spacing. Samples were collected from the following grid points/depths:

- AOC 1A (689) – 1 (0-2 foot [ft] depth)
- AOC 1A (689) – 3 (0-2 ft depth)
- AOC 1A (689) – 5 (0-2 ft depth)
- AOC 1A (689) – 7 (0-2 ft depth)
- AOC 1A (689) – 9 (0-2 ft depth)

Previous soil analysis performed by others after completion of the Navy remedial action at this AOC was below the current Maryland Department of the Environment (MDE) Residential Cleanup Standard for lead of 400 mg/kg (EA 1999). Therefore, soil samples were collected from the 0-2 ft depth in an effort to assess the fill material placed as part of the previous Navy remedial action at this AOC.

In addition, in accordance with the USEPA approved RFO #37 – Naval Training Center Bainbridge Field Sampling Plan Addendum #1 dated May 2010, the sample analyses were modified to the following to address MDE Clean Fill requirements and to verify that the U.S. Navy fully remediated the previously identified contaminant (lead):

- Each soil sample was analyzed for priority pollutant list (PPL) metals analysis via USEPA Method 6020A.
- One soil sample for volatile organic compound (VOC) analysis was collected which was analyzed via USEPA Method 8260B. The sample was to be selected based on PID readings and/or notable visual observations (e.g., staining). As no PID readings were detected and visual observations did not identify any areas of staining, the sample was randomly collected from one of the sample points. The sample was collected from lower portion of the depth interval.
- Two soil samples for semivolatile organic compound (SVOC) analysis were collected which were analyzed via USEPA Method 8270C. The samples were to be selected based on notable visual observations (e.g., staining). As visual observations did not identify any areas of staining, the samples were randomly collected from two of the sample points.
- Two soil samples for polychlorinated biphenyl (PCB) analysis were collected which were analyzed via USEPA Method 8082A. The samples were to be selected based on notable visual observations (e.g., staining). As visual observations did not identify any areas of staining, the samples were randomly collected from two of the sample points.
- One soil sample for pesticide analysis was collected which was analyzed via USEPA Method 8081B. The sample was to be selected based on notable visual observations (e.g., staining). As visual observations did not identify any areas of staining, the sample was randomly collected from one of the sample points.

The remaining Phase II ESA activities were performed in accordance with the USEPA approved FSP dated April 2010.

Prior to initiation of sampling effort, brush clearing was performed in the sampling areas. In addition, layout of the sample grid collection pattern was also conducted at this time using a global positioning

system (GPS) to locate and flag the sample locations. Prior to sampling, the local utility marking service (MISS Utility) was also contacted to perform municipal utility mark-out.

Samples were collected using a hand Geoprobe® tool which was decontaminated between each sample location. Site lithology and characterization information were recorded. Groundwater was not encountered in any of the borings.

Soil cores were screened visually and by a photoionization detector (PID) for the potential presence of VOCs. The results of the field screening were recorded by field personnel on soil boring logs using the Unified Soil Classification System (USCS). Visual observations did not identify any visual evidence of impact (e.g., soil staining), and no PID results above background levels were identified.

Upon retrieval from the sampler, the acetate liner was cut to expose the entire length of the core. Prior to homogenization, aliquots for VOC analysis were collected first prior to homogenization using a EnCore® sampler following USEPA Method SW5035. The remaining soil for that target interval was placed into a Ziploc bag and homogenized. A total of six discrete and one duplicate soil samples were collected for laboratory analysis. Where duplicates and/or matrix spike/matrix spike replicates were collected, enough soil for both the discrete sample and the quality control sample was homogenized together. Following homogenization, soils were placed into sample jars as required by the analytical method. Unused portions of the soil cores were returned to the boreholes.

Soil samples for laboratory analysis were placed on ice and delivered to Phase Separation Science, Inc. (Phase) in Catonsville, Maryland. Laboratory analysis was performed with low detection limits so that comparison could be conducted against the MDE Cleanup Standards for Soil and Groundwater (Update No. 2.1) dated June 2008.

A figure showing the sample locations is included in Attachment A. A summary Table of the laboratory analytical results is included in Attachment B, and laboratory results provided by Phase are included in Attachment C.

RESULTS

Metals: Metals results at or above the applicable MDE Residential Soil Cleanup Standards (or site-specific arsenic cleanup standard) were reported in three of five discrete soil samples collected at this AOC. The following metals, along with their associated MDE Residential Cleanup Standard (site-specific arsenic standard), were reported at or above the applicable cleanup standard in one or more of these three discrete samples: Arsenic (6.0 mg/kg); chromium (total) (23 mg/kg); and mercury (element) (0.09 mg/kg).

The following samples were reported with metals at or above the applicable MDE Residential Soil Cleanup Standards or site-specific 6.0 mg/kg arsenic cleanup standard. In addition, since no speciation of mercury was performed, the sample results were compared against both the mercury (inorganic/Mercuric Dichloride) and mercury (element) MDE Soil Cleanup Standards.

- AOC-1a(689)-1 (and its duplicate sample DUP-AOC1a(689)-01): Arsenic at 6.5 mg/kg (duplicate sample at 6.4 mg/kg); and chromium (total) 24 mg/kg (duplicate sample at 23 mg/kg)
- AOC-1a(689)-3 MS/MSD: Arsenic at 6.2 mg/kg; and mercury at 0.10 mg/kg
- AOC-1a(689)-5: Arsenic at 10 mg/kg; chromium (total) at 47 mg/kg; and mercury at 0.14 mg/kg

For reference purposes, the background metals results (Section B.3.3 of the Former Naval Training Center Bainbridge Phase II Environmental Site Assessment Report) for soil samples collected nearest this AOC (from north of the reservoir) include the following:

- Arsenic: 0.76 to 3.3 mg/kg
- Chromium: 2.5 to 7.8 mg/kg
- Mercury: Non-Detect (ND) to 0.26 mg/kg

In addition, the following are the MDE Anticipated Typical Concentration in soils (Eastern, MD) for these metals: Chromium (total) (28 mg/kg); and mercury (elemental) (0.09 mg/kg). Arsenic has a site-specific cleanup standard which is higher than its MDE ATC.

None of the remaining soil samples were reported with concentrations of arsenic, chrome (total), or mercury at or above the applicable cleanup standards. None of the samples were reported with concentrations of copper, lead, nickel, thallium, or zinc at or above the applicable cleanup standards. Antimony, beryllium, cadmium, selenium, and silver were not reported above the laboratory reporting limit in any soil samples.

PCBs, pesticides, and SVOCs: No PCBs, pesticides, or SVOCs were reported at or above the laboratory reporting limits.

VOCs: Acetone was reported in the soil sample selected for laboratory analysis, but at a concentration below the MDE Residential Soil Cleanup Standard of 7,000,000 µg/kg. No other VOCs were reported at or above the laboratory reporting limits.

DATA VALIDATION:

Based on the results of data validation performed as part of this Phase II ESA (Section B.4 of the Former Naval Training Center Bainbridge Phase II Environmental Site Assessment Report), all data associated with this AOC are acceptable for their intended use with the exception of the following sample/constituent which was rejected by the validator:

- 4-methyl-2-pentanone result for the following sample due to unacceptable laboratory calibration values:
 - 1A(689)-1

CONCLUSIONS:

No PCBs, pesticides, SVOCs, or VOCs were reported above the MDE Residential Soil Cleanup Standards in the surface soil (0-2 ft depth) samples.

However, the laboratory analytical results for three surface soil (0-2 ft depth) samples reported metals (arsenic, chromium [total], and mercury) above the MDE Residential Soil Cleanup Standards (or site-specific 6.0 mg/kg arsenic cleanup standard), although the reported chromium results for two of the samples were below the MDE ATC for chromium in soils (Eastern, MD).

As it is unknown what portion(s) of this AOC were backfilled by the U.S. Navy after their remedial actions were complete, the soils in this area (either the existing native surface site soils and/or the soils placed by the U.S. Navy after remedial actions were completed) appear to be impacted by metals above the applicable cleanup standards.

Attachments:

Attachment A: Figure

Attachment B: Table

Attachment C: Laboratory Analytical Results

Attachment A
Figure

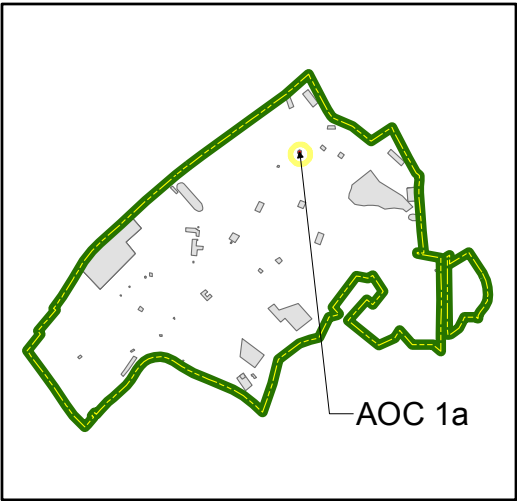
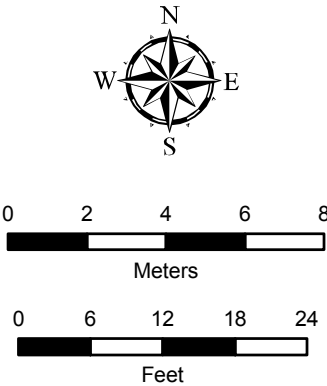


Figure 1
Area of Concern 1a
(Water Tower 689)
Sampling Design

Naval Training Center Bainbridge
Port Deposit, Maryland



- Legend**
- Property Boundary
 - Area of Concern
 - 35 ft Grid
 - Sample Location

Source: Axis Geospatial LLC, 2008
Projection: NAD 1983 Maryland StatePlane (ft)
August, 2010

Attachment B
Tables

NTCB AOC 1a (Water Tower 689) Metals, Pesticides, and PCB Sample Results

Date Sample Collected:				5/13/2010 and 5/18/2010	5/13/2010	5/13/2010	5/13/2010	5/13/2010	5/13/2010	5/13/2010
Sample Number				AOC-1a(689)-1	DUP-AOC1a(689)-01 (dup of AOC-1a(689)-1)	AOC-1a(689)-1/0-2	AOC-1a(689)-3 MS/MSD	AOC-1a(689)-5	AOC-1a(689)-7	AOC-1a(689)-9
Sample Depth (below ground surface)				0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft	0-2 ft
Matrix				Soil	Soil	Soil	Soil	Soil	Soil	Soil
Lead XRF Screening Result				38 +/- 3	NFS	NFS	29 +/- 3	25 +/- 3	33 +/- 3	30 +/- 4
Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	MDE Anticipated Typical Concentration in Soils (Eastern MD)	Metals Lab Results - mg/kg (or ppm)						
Antimony	3.1	41	---	ND(ul)	ND(ul)	N/A	ND(ul)	ND(ul)	ND(ul)	ND(ul)
Arsenic	6.0 (**)	6.0 (**)	3.6	6.5	6.4	N/A	6.2	10	5.0	4.4
Beryllium	16	200	---	ND	ND	N/A	ND(ul)	ND	ND	ND
Cadmium	3.9	51	---	ND	ND	N/A	ND	ND	ND	ND
Chromium (total)	23	310	28.0	24(k)	23(l)	N/A	22(k)	47(k)	19(k)	22(k)
Copper	310	4100	---	9.1	9.5	N/A	10	21	7.7	8.9
Lead	400	1000	---	18	14(k)	N/A	19	15	46	16
Mercury (element)	0.09	0.09	0.09	ND	0.05 (j)	N/A	0.10	0.14	ND	ND
Mercury (inorganic/Mercuric Dichloride)	2.3	31	0.51	ND	0.05 (j)	N/A	0.10	0.14	ND	ND
Nickel	160	2000	---	8.7	8.3	N/A	10	16	5.7	5.6
Selenium	39	510	---	ND	ND	N/A	ND	ND	ND	ND
Silver	39	510	---	ND	ND	N/A	ND	ND	ND	ND
Thallium	0.55	7.2	3.9	ND	ND(ul)	N/A	0.29 (j)	0.33 (j)	ND	ND
Zinc	2,300	31,000	---	25	19	N/A	29	34	45	20
Analyte	MDE Residential Soil Cleanup Standard (µg/kg)	MDE Non-Residential Soil Cleanup Standard (µg/kg)	MDE Anticipated Typical Concentration in Soils (Eastern MD)	Pesticide Lab Results - µg/kg (or ppb)						
4,4'-DDD	2,700	12,000	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDE	1,900	8,400	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
4,4'-DDT	1,900	8,400	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
Aldrin	38	170	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
a-BHC (a-HCH)	100	450	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
alpha-Chlordane	1,800	8,200	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
b-BHC (b-HCH)	350	1,600	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
d-BHC	490	2,200	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
Dieldrin	40	180	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan I	47,000	610,000	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan II	47,000	610,000	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
Endosulfan Sulfate	47,000	610,000	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
Endrin	2,300	31,000	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
Endrin Aldehyde	2,300	31,000	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
Endrin Ketone	2,300	31,000	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
g-BHC (Lindane)	490	2,200	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
gamma-Chlordane	1,800	8,200	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor	140	640	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
Heptachlor Epoxide	70	310	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
Methoxychlor	39,000	510,000	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
Toxaphene	580	2,600	--	ND	N/A	N/A	N/A	N/A	N/A	N/A
Analyte	MDE Residential Soil Cleanup Standard (mg/kg)	MDE Non-Residential Soil Cleanup Standard (mg/kg)	MDE Anticipated Typical Concentration in Soils (Eastern MD)	PCB Lab Results - mg/kg (or ppm)						
Aroclor 1016	0.55	41	--	ND	N/A	ND	N/A	N/A	N/A	N/A
Aroclor 1221	0.32	1.4	--	ND	N/A	ND	N/A	N/A	N/A	N/A
Aroclor 1232	0.32	1.4	--	ND	N/A	ND	N/A	N/A	N/A	N/A
Aroclor 1242	0.32	1.4	--	ND	N/A	ND	N/A	N/A	N/A	N/A
Aroclor 1248	0.32	1.4	--	ND	N/A	ND	N/A	N/A	N/A	N/A
Aroclor 1254	0.32	1.4	--	ND	N/A	ND	N/A	N/A	N/A	N/A
Aroclor 1260	0.32	1.4	--	ND	N/A	ND	N/A	N/A	N/A	N/A

Notes:

(**) Arsenic set by MDE as Site-Specific Concentration

N/A = Not Laboratory Analyzed

ND = Not Reported By Laboratory Above Reporting Limit

Maryland Department of the Environment (MDE)

Cleanup Standards for Soil and Groundwater,

June 2008. Interim Final Guidance (update No.2.1).

(j) Lab Estimate Below Calibration Curve

(ul),(k) see validation results

NFS = Not Field Screened

mg/kg = milligram per kilogram

ppm = part per million

µg/kg = microgram per kilogram

ppb = part per billion

ft = foot/feet

Indicates Result At or Above MDE Residential Cleanup Standard

or Site-Specific 6.0 mg/kg arsenic cleanup standard

NTCB AOC 1a (Water Tower 689) VOC and SVOC Sample Results

Date Sample Collected:			5/18/2010
Sample Number			AOC-1a(689)-1
Sample Depth (below ground surface)			0-2 ft
Matrix			Soil
Analyte	MDE Residential Soil Cleanup Standard (µg/kg)	MDE Non-Residential Soil Cleanup Standard (µg/kg)	VOC Lab Results - µg/kg (or ppb)
Chloromethane	--	--	ND
Vinyl Chloride (early life) ^a	90	--	ND
Vinyl Chloride (adult) ^{ba}	--	4,000	ND
Bromomethane	11,000	140,000	ND
Chloroethane	220,000	990,000	ND
Acetone	7,000,000	92,000,000	99
1,1-Dichloroethene	390,000	5,100,000	ND
Methylene Chloride (Dichloromethane)	85,000	380,000	ND
trans-1,2-Dichloroethene	160,000	2,000,000	ND
Methyl tert-butyl ether (MTBE) ^b	160,000	720,000	ND
1,1-Dichloroethane	1,600,000	20,000,000	ND
2-Butanone (Methyl Ethyl Ketone)	4,700,000	61,000,000	ND
cis-1,2-Dichloroethene	78,000	1,000,000	ND
Chloroform (THM) ^c	78,000	1,000,000	ND
1,1,1-Trichloroethane	16,000,000	200,000,000	ND
1,2-Dichloroethane	7,000	31,000	ND
Carbon Tetrachloride	4,900	22,000	ND
Benzene	12,000	52,000	ND
1,2-Dichloropropane	9,400	42,000	ND
Carbon Disulfide	780,000	10,000,000	ND
Trichloroethene	1,600	7,200	ND
Bromodichloromethane (THM) ^c	10,000	46,000	ND
cis-1,3-Dichloropropene	6,400	29,000	ND
4-Methyl-2-pentanone (Methyl Isobutyl Ketone)	--	--	ND[r]
trans-1,3-Dichloropropene	6,400	29,000	ND
1,1,2-Trichloroethane	11,000	50,000	ND
Toluene	630,000	8,200,000	ND
1,2-Dibromoethane (Ethylene Dibromide, EDB)	320	1,400	ND
Dibromochloromethane (THM) ^c	7,600	34,000	ND
Bromoform (THM) ^c	81,000	360,000	ND
Tetrachloroethene	1,200	5,300	ND
Chlorobenzene	160,000	2,000,000	ND
Ethylbenzene	780,000	10,000,000	ND
m,p-Xylenes	1,600,000	20,000,000	ND
Styrene	1,600,000	20,000,000	ND
1,1,2,2-Tetrachloroethane	3,200	14,000	ND
o-Xylenes	1,600,000	20,000,000	ND
Isopropylbenzene (Cumene)	780,000	10,000,000	ND
n-Propylbenzene	--	--	ND
1,3,5-Trimethylbenzene	--	--	ND
1,2,4-Trimethylbenzene	--	--	ND
n-Butylbenzene	--	--	ND
1,2-Dibromo-3-chloropropane	--	--	ND

Notes:
ND = Not Reported By Laboratory Above Reporting Limit
Maryland Department of the Environment (MDE)
Cleanup Standards for Soil and Groundwater,
June 2008. Interim Final Guidance (update No.2.1).
a = Carcinogenic chemicals with a Mutagenic Mode of Action (MOA).
b = MTBE action level in Maryland is 20 ug/L
c = THM (trihalomethanes) Contaminants within this group are disinfection byproducts sometimes added to drinking water.
[r] see validation results
Indicates Result Rejected By Validator

µg/kg = microgram per kilogram
ppb = part per billion
ft = foot/feet

Date Sample Collected:			5/18/2010	5/13/2010
Sample Number			AOC-1a(689)-1	AOC-1a(689)-1/0-2
Sample Depth (below ground surface)			0-2 ft	0-2 ft
Matrix			Soil	Soil
Analyte	MDE Residential Soil Cleanup Standard (µg/kg)	MDE Non-Residential Soil Cleanup Standard (µg/kg)	SVOC Lab Results - µg/kg (or ppb)	
Acenaphthene	470,000	6,100,000	ND	ND
Acenaphthylene	470,000	6,100,000	ND	ND
Anthracene	2,300,000	31,000,000	ND	ND
Benzo[a]anthracene ^a	220	3,900	ND	ND
Benzo[a]pyrene ^a	22	390	ND	ND
Benzo[b]fluoranthene ^a	220	3,900	ND	ND
Benzo[g,h,i]perylene	230,000	3,100,000	ND	ND
Benzo[k]fluoranthene ^a	2,200	39,000	ND	ND
bis(2-Chloroethyl)ether	580	2,600	ND	ND
Bis(2-Chloroisopropyl)ether	9,100	41,000	ND	ND
bis(2-Ethylhexyl)phthalate	46,000	200,000	ND	ND
Di-n-butylphthalate	780,000	10,000,000	ND	ND
Carbazole	32,000	140,000	ND	ND
4-Chloroaniline	31,000	410,000	ND	ND
2-Chloronaphthalene	630,000	8,200,000	ND	ND
2-Chlorophenol	39,000	510,000	ND	ND
Chrysene ^{ca}	22,000	390,000	ND	ND
Dibenz[a,h]anthracene ^a	22	390	ND	ND
Dibenzofuran	7,800	100,000	ND	ND
1,2-Dichlorobenzene	700,000	9,200,000	ND	ND
1,3-Dichlorobenzene	23,000	310,000	ND	ND
1,4-Dichlorobenzene	27,000	120,000	ND	ND
3,3-Dichlorobenzidine	1,400	6,400	ND	ND
2,4-Dichlorophenol	23,000	310,000	ND	ND
Diethylphthalate	6,300,000	82,000,000	ND	ND
2,4-Dimethylphenol	160,000	2,000,000	ND	ND
2,4-Dinitrophenol	16,000	200,000	ND	ND
2,4-Dinitrotoluene	16,000	200,000	ND	ND
2,6-Dinitrotoluene	7,800	100,000	ND	ND
Fluoranthene	310,000	4,100,000	ND	ND
Fluorene	310,000	4,100,000	ND	ND
Hexachlorobenzene	400	1,800	ND	ND
Hexachlorobutadiene	8,200	37,000	ND	ND
Hexachlorocyclopentadiene	47,000	610,000	ND	ND
Hexachloroethane	46,000	200,000	ND	ND
Indeno[1,2,3-c,d]pyrene ^b	220	3,900	ND	ND
Isophorone	670,000	3,000,000	ND	ND
2-Methylnaphthalene	31,000	410,000	ND	ND
2-Methylphenol	390,000	5,100,000	ND	ND
4-Methylphenol	39,000	510,000	ND	ND
Naphthalene	160,000	2,000,000	ND	ND
Nitrobenzene	3,900	51,000	ND	ND
N-Nitrosodiphenylamine	130,000	580,000	ND	ND
N-Nitroso-di-n-propylamine	91	410	ND	ND
Pentachlorophenol	5,300	24,000	ND	ND
Phenanthrene	2,300,000	31,000,000	ND	ND
Phenol	2,300,000	31,000,000	ND	ND
Pyrene	230,000	3,100,000	ND	ND
Di(2-ethylhexyl)adipate(*)	53,000	240,000	ND	ND
1,2,4-Trichlorobenzene	78,000	1,000,000	ND	ND
2,4,5-Trichlorophenol	780,000	10,000,000	ND	ND
2,4,6-Trichlorophenol	58,000	260,000	ND	ND

Notes:
ND = Not Reported By Laboratory Above Reporting Limit
Maryland Department of the Environment (MDE)
Cleanup Standards for Soil and Groundwater,
June 2008. Interim Final Guidance (update No.2.1).
a = Carcinogenic chemicals with a Mutagenic Mode of Action (MOA).
(*) Other name for Di(2-ethylhexyl)adipate is Bis(2-ethylhexyl)adipate
µg/kg = microgram per kilogram
ppb = part per billion
ft = foot/feet

Attachment C
Laboratory Results

Analytical Report for

ARGO Systems

Certificate of Analysis No.: 10051811

Project Manager: (b) (4)

Project Name : NTCB

Project Location: Port Deposit

Project ID : 1462309



May 28, 2010

Phase Separation Science, Inc.

6630 Baltimore National Pike

Baltimore, MD 21228

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410-747-8770
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PHASE SEPARATION SCIENCE, INC.



May 28, 2010

(b) (4)

ARGO Systems

1403 Madison Park Dr., Ste. 205
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10051811**

Project Name : NTCB

Project Location: Port Deposit

Project ID.: 1462309

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10051811**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on June 22, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

(b) (4)

Laboratory Manager



Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10051811

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/18/2010 at 04:15 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10051811-001	AOC-45c-16	SOIL	05/17/2010 09:40
10051811-002	AOC-45c-39	SOIL	05/17/2010 11:05
10051811-003	AOC-35-27	SOIL	05/17/2010 15:15
10051811-004	AOC-35-26	SOIL	05/17/2010 15:00
10051811-005	AOC-35-24	SOIL	05/17/2010 13:30
10051811-006	AOC-35-25	SOIL	05/17/2010 13:15
10051811-007	AOC-35-21	SOIL	05/17/2010 14:35
10051811-008	AOC-35-23	SOIL	05/17/2010 14:00
10051811-009	AOC-35-22	SOIL	05/17/2010 14:15
10051811-010	AOC-35-20 MS/MSD	SOIL	05/17/2010 11:15
10051811-011	AOC-45c-43	SOIL	05/17/2010 11:40
10051811-012	AOC-45c-27	SOIL	05/17/2010 10:50
10051811-013	AOC-45c-23	SOIL	05/17/2010 09:25
10051811-014	AOC-45c-3	SOIL	05/17/2010 10:05
10051811-015	AOC-45c-DUP-01	SOIL	05/17/2010 00:00
10051811-016	AOC-35-17	SOIL	05/17/2010 10:05
10051811-017	AOC-35-16	SOIL	05/17/2010 09:40
10051811-018	AOC-35-11	SOIL	05/17/2010 09:20
10051811-019	AOC-35-12	SOIL	05/17/2010 09:00
10051811-020	AOC-35-19	SOIL	05/17/2010 10:50
10051811-021	AOC-35-18	SOIL	05/17/2010 10:30
10051811-022	DUP-AOC-35-0-2	SOIL	05/17/2010 00:00
10051811-023	AOC-45a-47	SOIL	05/14/2010 10:45
10051811-024	AOC-45a-44 MS/MSD	SOIL	05/14/2010 11:15
10051811-025	AOC-1a (689)-1/0-2	SOIL	05/13/2010 11:15
10051811-026	AOC-45a-17	SOIL	05/13/2010 11:00
10051811-027	AOC-45a-69	SOIL	05/13/2010 14:15
10051811-028	AOC-45a-Dup-01	SOIL	05/14/2010 00:00

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].



Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10051811

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10051811

ARGO Systems, Glen Burnie, MD

May 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-1a (689)-1/0-2

Date/Time Sampled: 05/13/2010 11:15

PSS Sample ID: 10051811-025

Matrix: SOIL

Date/Time Received: 05/18/2010 16:15

% Solids: 88

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3550

Clean up Method: SW846 3665A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/21/10	05/24/10 16:27	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/21/10	05/24/10 16:27	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/21/10	05/24/10 16:27	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/21/10	05/24/10 16:27	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/21/10	05/24/10 16:27	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/21/10	05/24/10 16:27	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/21/10	05/24/10 16:27	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10051811

ARGO Systems, Glen Burnie, MD

May 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-1a (689)-1/0-2	Date/Time Sampled: 05/13/2010 11:15	PSS Sample ID: 10051811-025
Matrix: SOIL	Date/Time Received: 05/18/2010 16:15	% Solids: 88

VCP Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3550

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Acenaphthylene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Anthracene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Benzo(a)anthracene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Benzo(a)pyrene	ND	ug/kg	26		1	26	05/21/10	05/21/10 20:44	1014
Benzo(b)fluoranthene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Benzo(g,h,i)perylene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Benzo(k)fluoranthene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
bis(2-chloroethyl) ether	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
bis(2-chloroisopropyl) ether	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
bis(2-ethylhexyl) phthalate	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Di-n-butyl phthalate	ND	ug/kg	380		1	190	05/21/10	05/21/10 20:44	1014
Carbazole	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
4-Chloroaniline	ND	ug/kg	380		1	190	05/21/10	05/21/10 20:44	1014
2-Chloronaphthalene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
2-Chlorophenol	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Chrysene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Dibenz(a,h)Anthracene	ND	ug/kg	26		1	26	05/21/10	05/21/10 20:44	1014
Dibenzofuran	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
1,2-Dichlorobenzene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
1,3-Dichlorobenzene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
1,4-Dichlorobenzene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
3,3-Dichlorobenzidine	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
2,4-Dichlorophenol	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Diethyl phthalate	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
2,4-Dimethylphenol	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
2,4-Dinitrophenol	ND	ug/kg	380		1	190	05/21/10	05/21/10 20:44	1014
2,4-Dinitrotoluene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
2,6-Dinitrotoluene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Fluoranthene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10051811

ARGO Systems, Glen Burnie, MD

May 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-1a (689)-1/0-2	Date/Time Sampled: 05/13/2010 11:15	PSS Sample ID: 10051811-025
Matrix: SOIL	Date/Time Received: 05/18/2010 16:15	% Solids: 88

VCP Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3550

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Fluorene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Hexachlorobenzene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Hexachlorobutadiene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Hexachlorocyclopentadiene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Hexachloroethane	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Isophorone	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
2-Methylnaphthalene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
2-Methyl phenol	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
3&4-Methylphenol	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Naphthalene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Nitrobenzene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
N-Nitrosodi-n-propyl amine	ND	ug/kg	76		1	38	05/21/10	05/21/10 20:44	1014
N-Nitrosodiphenylamine	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Pentachlorophenol	ND	ug/kg	380		1	190	05/21/10	05/21/10 20:44	1014
Phenanthrene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Phenol	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Pyrene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
Bis(2-ethylhexyl)adipate	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
1,2,4-Trichlorobenzene	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
2,4,6-Trichlorophenol	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014
2,4,5-Trichlorophenol	ND	ug/kg	190		1	94	05/21/10	05/21/10 20:44	1014



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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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PHASE SEPARATION SCIENCE, INC.

CLIENT: EPA		OFFICE LOC. SPAR MD	PSS Work Order #: 10051811		PAGE 2 OF 3
PROJECT MGR: [REDACTED]		PHONE NO.: 410-324-5114	Matrix Codes:		
EMAIL: [REDACTED]		FAX NO.: 410-771-4904	SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe		
PROJECT NAME: NTCB		PROJECT NO.: 462309			
SITE LOCATION: Port Deposit		P.O. NO.:			
SAMPLERS: [REDACTED]		MATRIX (See Codes)			
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	No.	C O N T A I N E R S
11	AOC-45C-43	5/17/10	1140	1	G
12	AOC-45C-27		1050	1	G
13	AOC-45C-23		0925	1	G
14	AOC-45C-3		1005	1	G
15	AOC-45C-DWP-01		-	1	G
16	AOC-35-17		1005	89	G
17	AOC-35-16		0940	89	G
18	AOC-35-11		0920	89	G
19	AOC-35-12		0900	89	G
20	AOC-35-19		1050	89	G

LAB NO.	SAMPLE TYPE	C = COMP	G = GRAB	Preservatives Used	Analysis Method Required	VOCs	PCBs	Pesticides	TPH-GRO	SVOCS	TPH-DRO	REMARKS
11	G			X	X		X					
12	G			X	X							
13	G			X	X							
14	G			X	X							
15	G			X	X							
16	G					X	X	X	X	X	X	
17	G					X	X	X	X	X	X	
18	G					X	X	X	X	X	X	
19	G					X	X	X	X	X	X	
20	G					X	X	X	X	X	X	

Relinquished By: [REDACTED]	Date: 5/18/10	Time: 1515	Received By: [REDACTED]	Date: 5/18/10	Time: 1615
Relinquished By: [REDACTED]	Date: 5/18/10	Time: 1615	Received By: [REDACTED]	Date: 5/18/10	Time: 1615
Relinquished By: (3)			Received By:		
Relinquished By: (4)			Received By:		

# of Coolers: 5	Requested Turnaround Time:	Data Deliverables Required:	Special Instructions:
Custody Seal: ABS	<input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input checked="" type="checkbox"/> 2-Day <input type="checkbox"/> Other		
Ice Present: YES Temp: 22°			
Shipping Carrier: GHIANT			

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorneys or other reasonable fees if collection becomes necessary.



Phase Separation Science, Inc

Sample Receipt Checklist

Wo Number 10051811

Client Name ARGO Systems

Project Name NTCB

Project Number 1462309

Disposal Date: 06/22/2010

Received By (b) (4)

Date Received 05/18/2010 04:15:00 PM

Delivered By Client

Tracking No Not Applicable

Logged In By (b) (4)

Shipping Container(s)

No. of Coolers

5

Custody Seals

Not Applicable

Seal Condition

Not Applicable

Ice

Present

Temp (deg C)

2

Temp Blank Present No

Documentation

COC agrees with sample labels? ☒ Yes or ☐ No

Sampler Name: (b) (4)

Chain of Custody (COC) ☒ Yes or ☐ No

MD DW Cert. No.: N/A

Sample Container

Appropriate for Specified Analysis? Yes ☒ No ☐

Intact? ☒

Labeled and Labels Legible ☒

Total No. of Samples Received 28

Custody Seal(s) Absent

Custody Seal(s) Intact? Not Applicable

Seal(s) Signed / Dated Not Applicable

Total No. of Containers Received 179

Preservation

Metals

(pH<2)

Yes

No

N/A

Cyanides

(pH>12)

Sulfide

(pH>9)

TOC, COD, Phenols

(pH<2)

TOX, TKN, NH3, Total Phos

(pH<2)

VOC, BTEX (VOA Vials Rcvd Preserved)

(pH<2)

Do VOA vials have zero headspace?

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

Samples Inspected/Checklist Completed By: (b) (4)

Date: 5/19/10

PM Review and Approval:

Date: 5/21/10

Printed: 05/19/2010 12:00 PM

Analytical Report for

ARGO Systems

Certificate of Analysis No.: 10052419

Project Manager: (b) (4)

Project Name : NTCB

Project Location: Port Deposit

Project ID : 1462309



June 3, 2010

Phase Separation Science, Inc.

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PHASE SEPARATION SCIENCE, INC.



June 3, 2010

(b) (4)

ARGO Systems

1403 Madison Park Dr., Ste. 205
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10052419**

Project Name : NTCB

Project Location: Port Deposit

Project ID.: 1462309

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10052419**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on June 28, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

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We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

(b) (4)

Laboratory Manager



Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10052419

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/24/2010 at 04:35 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10052419-001	AOC-3-6/0-2	SOIL	05/12/2010 10:30
10052419-002	AOC-3-9/0-2	SOIL	05/12/2010 09:20
10052419-003	AOC-3-4/2-4 MS/MSD	SOIL	05/12/2010 11:00
10052419-004	AOC-3-6/2-4	SOIL	05/11/2010 10:30
10052419-005	AOC-3-9/2-4	SOIL	05/12/2010 08:45
10052419-006	AOC-3-11/2-4	SOIL	05/12/2010 12:00
10052419-007	AOC-3-16/2-4	SOIL	05/12/2010 12:45
10052419-008	AOC-3-20/2-4	SOIL	05/11/2010 09:30
10052419-009	AOC-3-21/2-4	SOIL	05/13/2010 08:10
10052419-010	AOC-3-23/2-4	SOIL	05/12/2010 13:15
10052419-011	AOC-3-25/2-4	SOIL	05/11/2010 10:00
10052419-012	AOC-3-28/2-4	SOIL	05/11/2010 14:40
10052419-013	AOC-3-29/2-4	SOIL	05/11/2010 13:20
10052419-014	AOC-3-30/2-4	SOIL	05/11/2010 13:05
10052419-015	AOC-3-34/2-4	SOIL	05/11/2010 14:50
10052419-016	AOC-3-36/2-4	SOIL	05/11/2010 13:40
10052419-017	AOC-3-38/2-4	SOIL	05/11/2010 08:30
10052419-018	AOC-3-39/2-4	SOIL	05/11/2010 13:45
10052419-019	AOC-3-40/2-4	SOIL	05/11/2010 14:10
10052419-020	AOC-3-41/2-4	SOIL	05/11/2010 14:00
10052419-021	AOC-3-42/2-4	SOIL	05/12/2010 11:20
10052419-022	AOC-3-46/2-4	SOIL	05/12/2010 10:05
10052419-023	AOC-3-48/2-4	SOIL	05/12/2010 10:35
10052419-024	AOC-3-50/2-4	SOIL	05/12/2010 10:20
10052419-025	AOC-3(GP02)-2/8-10	SOIL	05/13/2010 09:35
10052419-026	AOC-3(GP07)-1/8-10 MS/MSD	SOIL	05/13/2010 09:15
10052419-027	AOC-3(GP07)-2/8-10	SOIL	05/13/2010 08:45
10052419-028	AOC-3(GP07)-3/8-10	SOIL	05/13/2010 09:15
10052419-029	AOC-3-29/0-2	SOIL	05/12/2010 13:20
10052419-030	AOC-3-13/2-4	SOIL	05/12/2010 08:45
10052419-031	AOC-3-18/2-4	SOIL	05/11/2010 12:30
10052419-032	AOC-3-37/2-4	SOIL	05/12/2010 12:45
10052419-033	AOC-3-49/2-4	SOIL	05/12/2010 11:00
10052419-034	AOC-3(GP02)-1/8-10	SOIL	05/13/2010 10:00
10052419-035	AOC-3(GP02)-3/8-10	SOIL	05/13/2010 09:00
10052419-036	AOC-3(GP02)-4/8-10	SOIL	05/13/2010 09:20
10052419-037	AOC-3(GP07)-4/10-12	SOIL	05/13/2010 09:50
10052419-038	1A-55/2-4	SOIL	05/06/2010 14:40
10052419-039	NR-51/2-4	SOIL	05/03/2010 14:55
10052419-040	1A-70/2-4 MS/MSD	SOIL	05/06/2010 11:10
10052419-041	DUP-AOC-3-13	SOIL	05/12/2010 00:00
10052419-042	DUP-AOC-3-14	SOIL	05/13/2010 00:00
10052419-043	DUP-AOC-3-15	SOIL	05/11/2010 00:00



Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10052419

10052419-044	DUP-08/2-4	SOIL	05/03/2010 00:00
10052419-045	DUP-09/2-4	SOIL	05/06/2010 00:00
10052419-046	DUP-AOC-3-12	SOIL	05/12/2010 00:00
10052419-047	AOC-1a(689)-1	SOIL	05/18/2010 13:45
10052419-048	AOC-45a-28	SOIL	05/18/2010 11:05
10052419-049	AOC-45a-54	SOIL	05/18/2010 10:50
10052419-050	AOC-45a-69	SOIL	05/18/2010 11:35
10052419-051	AOC-45a-76	SOIL	05/18/2010 11:20

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Narrative Comments:

PCBs:

The PCB matrix spike and matrix spike duplicate were inadvertently spiked with the pesticide spike solution instead of the PCB spike solution; the laboratory control sample and laboratory control sample duplicate were acceptable.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052419

ARGO Systems, Glen Burnie, MD

June 3, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-1a(689)-1

Date/Time Sampled: 05/18/2010 13:45

PSS Sample ID: 10052419-047

Matrix: SOIL

Date/Time Received: 05/24/2010 16:35

% Solids: 86

Polychlorinated Biphenyls

Analytical Method: SW846 8082A

Preparation Method: SW846 3550

Clean up Method: SW846 3665A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
PCB-1016	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 16:25	1029
PCB-1221	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 16:25	1029
PCB-1232	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 16:25	1029
PCB-1242	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 16:25	1029
PCB-1248	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 16:25	1029
PCB-1254	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 16:25	1029
PCB-1260	ND	mg/kg	0.1		1	0.1	05/27/10	05/28/10 16:25	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052419

ARGO Systems, Glen Burnie, MD

June 3, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-1a(689)-1	Date/Time Sampled: 05/18/2010 13:45	PSS Sample ID: 10052419-047
Matrix: SOIL	Date/Time Received: 05/24/2010 16:35	% Solids: 86

VCP Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3550

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Acenaphthene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Acenaphthylene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Anthracene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Benzo(a)anthracene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Benzo(a)pyrene	ND	ug/kg	27		1	27	05/27/10	05/28/10 11:22	1014
Benzo(b)fluoranthene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Benzo(g,h,i)perylene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Benzo(k)fluoranthene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
bis(2-chloroethyl) ether	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
bis(2-chloroisopropyl) ether	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
bis(2-ethylhexyl) phthalate	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Di-n-butyl phthalate	ND	ug/kg	390		1	190	05/27/10	05/28/10 11:22	1014
Carbazole	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
4-Chloroaniline	ND	ug/kg	390		1	190	05/27/10	05/28/10 11:22	1014
2-Chloronaphthalene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
2-Chlorophenol	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Chrysene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Dibenz(a,h)Anthracene	ND	ug/kg	27		1	27	05/27/10	05/28/10 11:22	1014
Dibenzofuran	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
1,2-Dichlorobenzene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
1,3-Dichlorobenzene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
1,4-Dichlorobenzene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
3,3-Dichlorobenzidine	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
2,4-Dichlorophenol	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Diethyl phthalate	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
2,4-Dimethylphenol	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
2,4-Dinitrophenol	ND	ug/kg	390		1	190	05/27/10	05/28/10 11:22	1014
2,4-Dinitrotoluene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
2,6-Dinitrotoluene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Fluoranthene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052419

ARGO Systems, Glen Burnie, MD

June 3, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: AOC-1a(689)-1	Date/Time Sampled: 05/18/2010 13:45	PSS Sample ID: 10052419-047
Matrix: SOIL	Date/Time Received: 05/24/2010 16:35	% Solids: 86

VCP Semivolatile Organic Compounds

Analytical Method: SW846 8270C

Preparation Method: SW846 3550

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Fluorene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Hexachlorobenzene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Hexachlorobutadiene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Hexachlorocyclopentadiene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Hexachloroethane	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Indeno(1,2,3-c,d)Pyrene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Isophorone	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
2-Methylnaphthalene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
2-Methyl phenol	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
3&4-Methylphenol	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Naphthalene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Nitrobenzene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
N-Nitrosodi-n-propyl amine	ND	ug/kg	77		1	39	05/27/10	05/28/10 11:22	1014
N-Nitrosodiphenylamine	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Pentachlorophenol	ND	ug/kg	390		1	190	05/27/10	05/28/10 11:22	1014
Phenanthrene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Phenol	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Pyrene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
Bis(2-ethylhexyl)adipate	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
1,2,4-Trichlorobenzene	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
2,4,6-Trichlorophenol	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014
2,4,5-Trichlorophenol	ND	ug/kg	190		1	97	05/27/10	05/28/10 11:22	1014



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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

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1 CLIENT: EPA OFFICE LOC. Sparks, MD		PSS Work Order # 10052419 PAGE 2 OF 6		
PROJECT MGR: (b) (4)		Matrix Codes: SW-Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe		
EMAIL: dstranef@epa.gov FAX NO.: (410) 771-4204				
PROJECT NAME: NTCB PROJECT NO.: 1462309				
SITE LOCATION: Port Deposit P.O. NO.: (b) (4)				
SAMPLERS: (b) (4)				
2				
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)
11	AOC-3-25/2-4	5/11/10	1000	S
12	AOC-3-28/2-4		1440	
13	AOC-3-29/2-4		1320	
14	AOC-3-30/2-4		1365	
15	AOC-3-34/2-4		1450	
16	AOC-3-36/2-4		1340	
17	AOC-3-38/2-4		0830	
18	AOC-3-39/2-4		1345	
19	AOC-3-40/2-4		1410	
20	AOC-3-41/2-4		1400	
5				
Relinquished By: (2)	(b) (4)	Date	Time	Received By: (b) (4)
		5/24/10	1635	
Relinquished By: (3)		Date	Time	Received By:
Relinquished By: (4)		Date	Time	Received By:
3		Requested Turnaround Time <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input checked="" type="checkbox"/> Other <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other		
4		Data Deliverables Required:		
5		# of Coolers: 2 Custody Seal: ABS Ice Present: YES Temp: 0°C Shipping Carrier: DIAL		
Special Instructions:				

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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

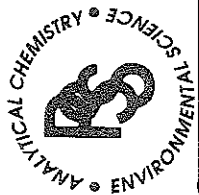
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PHASE SEPARATION SCIENCE, INC.

1		CLIENT: EPA	OFFICE LOC. Sparks, MD	PSS Work Order # 100S2419	PAGE 3 OF 6
2		PROJECT MGR: [Redacted]	PHONE NO.: (410) 325-5114	Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe	
3		EMAIL: [Redacted]	FAX NO.: (410) 771-4204	Preservatives Used	
4		PROJECT NAME: NTCB	PROJECT NO.: 1462307	Analysis/Method Required	
5		SITE LOCATION: Pent Deposit	P.O. NO.: [Redacted]	C = COMP G = GRAB	
6		SAMPLERS: [Redacted]	[Redacted]	CONTAINERS	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	REMARKS
21	AOC-3-42/2-4	5/12/10	1120	S	RR Change
22	AOC-3-46/2-4	5/12/10	1005	S	Identified above
23	AOC-3-48/2-4	5/12/10	1035	S	Residential Comp
24	AOC-3-50/2-4	5/12/10	1020	S	Standard Sample
25	AOC-3-60/2-4	5/12/10	0935	S	Should be analyzed
26	AOC-3-60/2-4	5/12/10	0915	S	for Hec Change
27	AOC-3-60/2-4	5/12/10	0845	S	Manufact. Process
28	AOC-3-60/2-4	5/12/10	0915	S	Inform EPA
29	AOC-3-29/10-2	5/12/10	1320	S	Referencing
30	AOC-3-13/12-4	5/12/10	0845	S	
7		Relinquished By: [Redacted]	Date: 5/24/10	Time: 1505	Received By: [Redacted]
8		Relinquished By: [Redacted]	Date: 5/24/10	Time: 1635	Received By: [Redacted]
9		Relinquished By: [Redacted]	Date: [Redacted]	Time: [Redacted]	Received By: [Redacted]
10		Relinquished By: [Redacted]	Date: [Redacted]	Time: [Redacted]	Received By: [Redacted]

Requested Turnaround Time		# of Coolers: 2	
<input type="checkbox"/> 5-Day	<input type="checkbox"/> 3-Day	<input type="checkbox"/> 2-Day	Custody Seal: ABS
<input type="checkbox"/> Next Day	<input type="checkbox"/> Emergency	<input type="checkbox"/> Other	Ice Present: YES Temp: 0°C
Data Deliverables Required:		Shipping Carrier: DIAL	
Special Instructions:			

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PHASE SEPARATION SCIENCE, INC.

1		CLIENT: EPP	OFFICE LOC: Sparks, MD	PSS Work Order #: 10052419	PAGE: 4 OF 6
PROJECT MGR: (b)(6)		PHONE NO.: (410) 329-514		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe	
EMAIL: (b)(6)		FAX NO.: (410) 771-9204			
PROJECT NAME: NTCP		PROJECT NO.: 146730			
SITE LOCATION: Port Deposit		P.O. NO.:			
SAMPLERS: (b)(6)					
2		3		4	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	REMARKS
31	AOC-3-18/2-4	5/11/10	1230	5	Identified as pure
32	AOC-3-37/2-4	5/11/10	1245		Identified as pure
33	AOC-3-49/2-4	5/11/10	1100		Identified as pure
34	AOC-3(6-P02)-1/8-10	5/13/10	1000		Identified as pure
35	AOC-3(6-P02)-3/8-10	5/13/10	0900		Identified as pure
36	AOC-3(6-P02)-4/8-10	5/13/10	0920		Identified as pure
37	AOC-3(6-P07)-4/10-12	5/13/10	0950		Identified as pure
38	1A-55/2-4	5/11/10	1440		Identified as pure
39	NR-5/12-4	5/13/10	1455		Identified as pure
40	1A-70/2-4 MS/MSD	5/16/10	1110		Identified as pure
5		Relinquished By: (b)(6)		Requested Turnaround Time: <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other	
Relinquished By: (b)(6)		Date: 5/24/10		Custody Seal: ABS	
Relinquished By: (b)(6)		Date: 5/24/10		Ice Present: YES Temp: 00	
Relinquished By: (b)(6)		Date: 5/24/10		Shipping Carrier: DIAL	
Relinquished By: (b)(6)		Date: 5/24/10		Special Instructions:	
Relinquished By: (b)(6)		Date: 5/24/10			
Relinquished By: (b)(6)		Date: 5/24/10			

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PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EPA		OFFICE LOC: Sparta, MD		PSS Work Order #: 10052419		PAGE 5 OF 6			
PROJECT MGR: (b) (4)		PHONE NO.: (410) 329-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Liquid WS=Waste Solid W=Wipe					
EMAIL: (b) (4)		FAX NO.: (410) 771-4204							
PROJECT NAME: NTCB		PROJECT NO.: 1462309							
SITE LOCATION: Port Deposit		P.O. NO.:							
SAMPLERS:									
LAB NO.		SAMPLE IDENTIFICATION		DATE		TIME		MATRIX (See Codes)	
41		Dup-AOC-3-13		5/12/10		-		S	
42		Dup-AOC-3-14		5/13/10		-		-	
43		Dup-AOC-3-15		5/11/10		-		-	
44		Dup-0812-4		5/3/10		-		-	
45		Dup-0912-4		5/6/10		-		-	
46		Dup-AOC-3-12		5/12/10		-		-	
47		AOC-146689-1		5/18/10		1345		-	
48		AOC-452-28		1105		-		-	
49		AOC-452-54		1050		-		-	
50		AOC-452-69		1135		-		-	
Relinquished By: (3)		Date: 5/24/10		Time: 1505					
Relinquished By: (4)		Date: 5-24-10		Time: 1635					
Relinquished By: (3)		Date:		Time:		Received By:			
Relinquished By: (4)		Date:		Time:		Received By:			

Preservatives Used		Analysis/Method Required		SAMPLE TYPE		C = COMP		G = GRAB	
Arsenic		X		G		X		X	
Lead		X		G		X		X	
Nickel		X		G		X		X	
Chromium		X		G		X		X	
Manganese		X		G		X		X	
Vanadium		X		G		X		X	
Pb Metals		X		G		X		X	
SVCs		X		G		X		X	
PLBs		X		G		X		X	

Requested Turnaround Time		# of Coolers: 2	
<input type="checkbox"/> 5-Day	<input type="checkbox"/> 3-Day	<input type="checkbox"/> 2-Day	<input type="checkbox"/> Other
Data Deliverables Required:		Custody Seal: ABS	
Ice Present: YES		Temp: 0°C	
Shipping Carrier: DIAL			

Special Instructions:

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



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email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

[illegible]

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



Phase Separation Science, Inc

Sample Receipt Checklist

Wo Number 10052419 Received By (b) (4)
Client Name ARGO Systems Date Received 05/24/2010 04:35:00 PM
Project Name NTCP Delivered By Dial Courier
Project Number 1462309 Tracking No Not Applicable
Disposal Date: 06/28/2010 Logged In By (b) (4)

Shipping Container(s)

No. of Coolers	2	Ice	Present
Custody Seals	Absent	Temp (deg C)	0
Seal Condition	Absent	Temp Blank Present	No

Documentation

COC agrees with sample labels? ☒ Yes or ☐ No Sampler Name: (b) (4)
Chain of Custody (COC) ☒ Yes or ☐ No MD DW Cert. No.: N/A

Sample Container

Appropriate for Specified Analysis?	Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Custody Seal(s)	Absent
Intact?	<input checked="" type="checkbox"/>	Custody Seal(s) Intact?	Not Applicable
Labeled and Labels Legible	<input checked="" type="checkbox"/>	Seal(s) Signed / Dated	Not Applicable
Total No. of Samples Received	51	Total No. of Containers Received	57

Preservation

	Yes	No	N/A
Metals (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cyanides (pH>12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfide (pH>9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC, COD, Phenols (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do VOA vials have zero headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

Samples Inspected/Checklist Completed By: (b) (4)

Date: 5/25/10

PM Review and Approval: [Signature]

Date: 5/26/10

Printed: 05/25/2010 11:14 AM

Analytical Report for

ARGO Systems

Certificate of Analysis No.: 10051907

Project Manager: (b) (4)

Project Name : NTCB

Project Location: Port Deposit

Project ID : 1462309



May 28, 2010

Phase Separation Science, Inc.

6630 Baltimore National Pike

Baltimore, MD 21228

Phone: (410) 747-8770

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PHASE SEPARATION SCIENCE, INC.



May 28, 2010

(b) (4)

ARGO Systems

1403 Madison Park Dr., Ste. 205
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10051907**

Project Name : NTCB

Project Location: Port Deposit

Project ID.: 1462309

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10051907**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on June 23, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

(b) (4)

Laboratory Manager



Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10051907

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/19/2010 at 12:40 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10051907-001	AOC-35-29	SOIL	05/18/2010 08:25
10051907-002	AOC-35-28	SOIL	05/18/2010 08:10
10051907-003	AOC-35-30	SOIL	05/18/2010 08:40
10051907-004	AOC-35-34	SOIL	05/18/2010 09:20
10051907-005	AOC-35-35	SOIL	05/18/2010 09:05
10051907-006	AOC-35-33	SOIL	05/18/2010 09:40
10051907-007	AOC-35-32	SOIL	05/18/2010 09:55
10051907-008	1A(689)-1	SOIL	05/18/2010 13:45
10051907-009	AOC-35-31	SOIL	05/18/2010 10:10
10051907-010	AOC-45a-28	SOIL	05/18/2010 11:05
10051907-011	AOC-45a-54	SOIL	05/18/2010 10:50
10051907-012	AOC-45a-69	SOIL	05/18/2010 11:35
10051907-013	AOC-45a-76	SOIL	05/18/2010 11:20
10051907-014	DUP-AOC-35-03	SOIL	05/18/2010 00:00
10051907-015	DUP-AOC-45a-02	SOIL	05/18/2010 00:00
10051907-016	AOC-14-3-0-2	SOIL	05/18/2010 09:05
10051907-017	AOC-14-3-2-4	SOIL	05/18/2010 09:30
10051907-018	AOC-14-4-0-2	SOIL	05/18/2010 09:50
10051907-019	AOC-14-4-2-4 MS/MSD	SOIL	05/18/2010 10:00
10051907-020	AOC-14-5-0-2	SOIL	05/18/2010 10:20
10051907-021	AOC-14-5-2-4	SOIL	05/18/2010 10:40
10051907-022	DUP-AOC-14-01	SOIL	05/18/2010 00:00
10051907-023	DUP-AOC-14-02	SOIL	05/18/2010 00:00
10051907-024	AOC-28-27 MS/MSD	SOIL	05/18/2010 14:10
10051907-025	AOC-28-19	SOIL	05/18/2010 14:50
10051907-026	AOC-28-20	SOIL	05/18/2010 14:30
10051907-027	AOC-28-28	SOIL	05/18/2010 14:00
10051907-028	AOC-28-34	SOIL	05/18/2010 13:40
10051907-029	AOC-28-33	SOIL	05/18/2010 13:15
10051907-030	AOC-28-28	SOIL	05/18/2010 13:50
10051907-031	AOC-28-35	SOIL	05/18/2010 13:25
10051907-032	DUP-AOC-28-01	SOIL	05/18/2010 00:00
10051907-033	DUP-AOC-2a-04/2-4	SOIL	05/10/2010 00:00
10051907-034	DUP-AOC-2a-05/2-4	SOIL	05/12/2010 00:00
10051907-035	DUP-AOC-2a-06/0-1	SOIL	05/10/2010 00:00
10051907-036	DUP-AOC-3-06/2-4	SOIL	05/12/2010 00:00
10051907-037	DUP-AOC-3-07/2-4	SOIL	05/13/2010 00:00
10051907-038	DUP-AOC-3-08/8-10	SOIL	05/13/2010 00:00
10051907-039	DUP-AOC-3-09/2-4	SOIL	05/12/2010 00:00
10051907-040	AOC-2a-33/2-4 MS/MSD	SOIL	05/11/2010 09:00
10051907-041	AOC-3-34/2-4 MS/MSD	SOIL	05/12/2010 14:50



Case Narrative Summary

Client Name: ARGO Systems

Project Name: NTCB

Project ID: 1462309

Work Order Number: 10051907

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Narrative Comments:

Terphenyl-d14 fell below 50% in the sample:
041SD.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10051907

ARGO Systems, Glen Burnie, MD

May 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: 1A(689)-1	Date/Time Sampled: 05/18/2010 13:45	PSS Sample ID: 10051907-008
Matrix: SOIL	Date/Time Received: 05/19/2010 12:40	% Solids: 89

VCP Organochlorine Pesticides

Analytical Method: SW846 8081B

Preparation Method: SW846 3550

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
4,4-DDD	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
4,4-DDE	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
4,4-DDT	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
Aldrin	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
alpha-BHC	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
alpha-Chlordane	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
beta-BHC	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
delta-BHC	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
Dieldrin	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
Endosulfan I	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
Endosulfan II	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
Endosulfan sulfate	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
Endrin	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
Endrin aldehyde	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
Endrin ketone	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
gamma-BHC (Lindane)	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
gamma-Chlordane	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
Heptachlor	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
Heptachlor epoxide	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
Methoxychlor	ND	ug/kg	22		1	11	05/22/10	05/25/10 19:32	1029
Toxaphene	ND	ug/kg	220		1	110	05/22/10	05/25/10 19:32	1029

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10051907

ARGO Systems, Glen Burnie, MD

May 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: 1A(689)-1

Date/Time Sampled: 05/18/2010 13:45

PSS Sample ID: 10051907-008

Matrix: SOIL

Date/Time Received: 05/19/2010 12:40

% Solids: 89

VCP Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5035A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chloromethane	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Vinyl Chloride	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Bromomethane	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Chloroethane	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Acetone	99	ug/kg	22		1	11	05/21/10	05/21/10 15:52	1011
1,1-Dichloroethene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Methylene Chloride	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
trans-1,2-Dichloroethene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Methyl-t-butyl ether	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
1,1-Dichloroethane	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
2-Butanone	ND	ug/kg	22		1	11	05/21/10	05/21/10 15:52	1011
cis-1,2-Dichloroethene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Chloroform	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
1,1,1-Trichloroethane	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
1,2-Dichloroethane	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Carbon Tetrachloride	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Benzene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
1,2-Dichloropropane	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Carbon Disulfide	ND	ug/kg	11		1	5.6	05/21/10	05/21/10 15:52	1011
Trichloroethene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Bromodichloromethane	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
cis-1,3-Dichloropropene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
4-Methyl-2-Pentanone	ND	ug/kg	22		1	11	05/21/10	05/21/10 15:52	1011
trans-1,3-Dichloropropene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
1,1,2-Trichloroethane	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Toluene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
1,2-Dibromoethane	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Dibromochloromethane	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Bromoform	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Tetrachloroethene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10051907

ARGO Systems, Glen Burnie, MD

May 28, 2010

Project Name: NTCB

Project Location: Port Deposit

Project ID: 1462309

Sample ID: 1A(689)-1

Date/Time Sampled: 05/18/2010 13:45

PSS Sample ID: 10051907-008

Matrix: SOIL

Date/Time Received: 05/19/2010 12:40

% Solids: 89

VCP Volatile Organic Compounds

Analytical Method: SW846 8260B

Preparation Method: SW846 5035A

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Chlorobenzene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Ethylbenzene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
m,p-Xylenes	ND	ug/kg	11		1	5.6	05/21/10	05/21/10 15:52	1011
Styrene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
1,1,2,2-Tetrachloroethane	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
o-Xylene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
Isopropylbenzene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
n-Propylbenzene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
1,3,5-Trimethylbenzene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
1,2,4-Trimethylbenzene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
n-Butylbenzene	ND	ug/kg	6		1	2.8	05/21/10	05/21/10 15:52	1011
1,2-Dibromo-3-Chloropropane	ND	ug/kg	45		1	22	05/21/10	05/21/10 15:52	1011

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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PHASE SEPARATION SCIENCE, INC.

CLIENT: EPA		OFFICE LOC. Sparks MD		PSS Work Order #: 10051907	PAGE 1 OF 1
PROJECT MGR: [REDACTED]		PHONE NO.: (410) 328-5114		SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe	
EMAIL: [REDACTED]		FAX NO.: (410) 771-5304			
PROJECT NAME: POTCB		PROJECT NO.: 1462309			
SITE LOCATION: Port Deposit		P.O. NO.:			
SAMPLERS: [REDACTED] (b)(4)					
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	
1	AOC-35-29 *	5/18/10	0825	S	
2	AOC-35-28 *		0810		
3	AOC-35-30 *		0840		
4	AOC-35-34 *		0920		
5	AOC-35-35 *		0905		
6	AOC-35-33 *		0940		
7	AOC-35-32 *		0955		
8	IA(689)-1		1345		
9	AOC-35-31 *		1010		
10	AOC-45A-28		1105		

No.	C O N T A I N E R S	SAMPLE TYPE	Preservatives Used	TPH-DRO	TPH-GPD	VOLCS	SVOLCS	Pesticides	ANALYSIS METHOD REQUIRED	REMARKS
7	G	C = COMP	X	X	X	X	X	X	(b)(4)	* IF Chromium identified as Residual Standard Sample should be analyzed for Chromium, Vanadium Please inform EA before reanalysis

# of Coolers:	Requested Turnaround Time	Custody Seal:	Ice Present:	Temp:	Shipping Carrier:
5	<input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> Next Day <input type="checkbox"/> 3-Day <input type="checkbox"/> Emergency <input type="checkbox"/> Other	PLBS	PLBS	0°C	DIAL

Date	Time	Received By:	Date	Time	Received By:
5/19/10	1040	[REDACTED] (b)(4)	5/19/10	1240	[REDACTED] (b)(4)

Date	Time	Relinquished By: (3)	Date	Time	Relinquished By: (4)
5/19/10	1040	[REDACTED] (b)(4)	5/19/10	1240	[REDACTED] (b)(4)

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① CLIENT: EP/A OFFICE LOC. Saraks, MD PSS Work Order #: 10051907 PAGE 2 OF 2

MATRIX CODES:

CW	= Concrete	Mar	= Marine	WS	= Waste Solid	WL	= Waste Liquid
DW	= Drinking Wtr	GW	= Ground Wtr	WW	= Waste Wtr	O	= Oil
S	= Soil	S	= Soil	W	= Waste	W	= Waste

[illegible][illegible][illegible]

PROJECT NAME: WTC B3
PROJECT NO.: 1462305
METRO REQUIRED

[illegible]

SITE LOCATION:	
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(b) (4) Shipping Carrier: LA

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Special Instructions: _____	

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6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-0723

The client (Client Name), by signing, or having client's agent sign, this Sample Chain of Custody/Agreement Form, agrees to pay for the above requested services. The client understands and acknowledges that the fee provided includes all services and materials required for the analysis. The client understands that the fee does not include any additional testing or analysis beyond what is specified in the agreement. The client understands that the fee does not include any additional shipping or handling charges. The client understands that the fee does not include any additional storage or retrieval charges. The client understands that the fee does not include any additional reporting or documentation charges. The client understands that the fee does not include any additional consultation or advice charges. The client understands that the fee does not include any additional training or education charges. The client understands that the fee does not include any additional travel or transportation charges. The client understands that the fee does not include any additional accommodation or lodging charges. The client understands that the fee does not include any additional food or beverage charges. The client understands that the fee does not include any additional entertainment or recreation charges. The client understands that the fee does not include any additional personal or household items charges. The client understands that the fee does not include any additional clothing or accessories charges. The client understands that the fee does not include any additional toiletries or personal care products charges. The client understands that the fee does not include any additional electronics or technology charges. The client understands that the fee does not include any additional furniture or fixtures charges. The client understands that the fee does not include any additional appliances or equipment charges. The client understands that the fee does not include any additional vehicles or transportation charges. The client understands that the fee does not include any additional pets or animals charges. The client understands that the fee does not include any additional plants or flowers charges. The client understands that the fee does not include any additional landscaping or garden maintenance charges. The client understands that the fee does not include any additional pest control or extermination charges. The client understands that the fee does not include any additional cleaning or maintenance charges. The client understands that the fee does not include any additional repairs or replacements charges. The client understands that the fee does not include any additional insurance or liability charges. The client understands that the fee does not include any additional legal or professional fees charges. The client understands that the fee does not include any additional taxes or duties charges. The client understands that the fee does not include any additional customs or brokerage charges. The client understands that the fee does not include any additional freight or forwarding charges. The client understands that the fee does not include any additional warehousing or inventory charges. The client understands that the fee does not include any additional distribution or logistics charges. The client understands that the fee does not include any additional marketing or advertising charges. The client understands that the fee does not include any additional public relations or media charges. The client understands that the fee does not include any additional consulting or advisory charges. The client understands that the fee does not include any additional research or development charges. The client understands that the fee does not include any additional manufacturing or production charges. The client understands that the fee does not include any additional packaging or labeling charges. The client understands that the fee does not include any additional shipping or delivery charges. The client understands that the fee does not include any additional installation or setup charges. The client understands that the fee does not include any additional training or support charges. The client understands that the fee does not include any additional warranty or guarantee charges. The client understands that the fee does not include any additional return or refund charges. The client understands that the fee does not include any additional dispute resolution or arbitration charges. The client understands that the fee does not include any additional mediation or conciliation charges. The client understands that the fee does not include any additional litigation or court costs charges. The client understands that the fee does not include any additional attorney's fees charges. The client understands that the fee does not include any additional expert witness fees charges. The client understands that the fee does not include any additional forensic or investigative charges. The client understands that the fee does not include any additional security or protection charges. The client understands that the fee does not include any additional risk management or assessment charges. The client understands that the fee does not include any additional compliance or regulatory charges. The client understands that the fee does not include any additional quality assurance or control charges. The client understands that the fee does not include any additional performance or efficiency charges. The client understands that the fee does not include any additional innovation or research charges. The client understands that the fee does not include any additional sustainability or environmental charges. The client understands that the fee does not include any additional social or community charges. The client understands that the fee does not include any additional ethical or moral charges. The client understands that the fee does not include any additional cultural or heritage charges. The client understands that the fee does not include any additional historical or archaeological charges. The client understands that the fee does not include any additional linguistic or literary charges. The client understands that the fee does not include any additional artistic or creative charges. 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The client understands that the fee does not include any additional operational or logistical charges. The client understands that the fee does not include any additional personnel or staffing charges. The client understands that the fee does not include any additional equipment or machinery charges. The client understands that the fee does not include any additional software or hardware charges. The client understands that the fee does not include any additional information or communication charges. The client understands that the fee does not include any additional data or analytics charges. The client understands that the fee does not include any additional systems or infrastructure charges. The client understands that the fee does not include any additional services or support charges. The client understands that the fee does not include any additional resources or materials charges. The client understands that the fee does not include any additional time or effort charges. The client understands that the fee does not include any additional cost or expense charges. The client understands that the fee does not include any additional profit or margin charges. The client understands that the fee does not include any additional revenue or income charges. The client understands that the fee does not include any additional assets or liabilities charges. The client understands that the fee does not include any additional equity or ownership charges. The client understands that the fee does not include any additional debt or obligation charges. The client understands that the fee does not include any additional rights or interests charges. The client understands that the fee does not include any additional powers or authority charges. The client understands that the fee does not include any additional responsibilities or duties charges. The client understands that the fee does not include any additional obligations or commitments charges. The client understands that the fee does not include any additional promises or assurances charges. The client understands that the fee does not include any additional guarantees or warranties charges. The client understands that the fee does not include any additional contracts or agreements charges. The client understands that the fee does not include any additional terms or conditions charges. The client understands that the fee does not include any additional rules or regulations charges. The client understands that the fee does not include any additional laws or statutes charges. The client understands that the fee does not include any additional codes or standards charges. The client understands that the fee does not include any additional policies or procedures charges. The client understands that the fee does not include any additional guidelines or instructions charges. The client understands that the fee does not include any additional manuals or documents charges. The client understands that the fee does not include any additional forms or templates charges. The client understands that the fee does not include any additional letters or emails charges. The client understands that the fee does not include any additional reports or presentations charges. The client understands that the fee does not include any additional proposals or bids charges. The client understands that the fee does not include any additional offers or discounts charges. The client understands that the fee does not include any additional incentives or rewards charges. The client understands that the fee does not include any additional penalties or fines charges. The client understands that the fee does not include any additional sanctions or punishments charges. The client understands that the fee does not include any additional damages or compensation charges. The client understands that the fee does not include any additional restitution or reimbursement charges. 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The client understands that the fee does not include any additional family or kinship charges. The client understands that the fee does not include any additional partnership or alliance charges. The client understands that the fee does not include any additional coalition or confederation charges. The client understands that the fee does not include any additional union or association charges. The client understands that the fee does not include any additional guild or fraternity charges. The client understands that the fee does not include any additional order or society charges. The client understands that the fee does not include any additional sect or denomination charges. The client understands that the fee does not include any additional church or synagogue charges. The client understands that the fee does not include any additional mosque or temple charges. The client understands that the fee does not include any additional shrine or altar charges. 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The client understands that the fee does not include any additional sibling or cousin charges. The client understands that the fee does not include any additional aunt or uncle charges. The client understands that the fee does not include any additional grandparent or great-grandparent charges. The client understands that the fee does not include any additional niece or nephew charges. The client understands that the fee does not include any additional son-in-law or daughter-in-law charges. The client understands that the fee does not include any additional stepmother or stepfather charges. The client understands that the fee does not include any additional half-sibling or half-cousin charges. The client understands that the fee does not include any additional adopted child or adopted parent charges. The client understands that the fee does not include any additional foster parent or foster child charges. The client understands that the fee does not include any additional orphan or ward charges. The client understands that the fee does not include any additional inmate or prisoner charges. The client understands that the fee does not include any additional convict or felon charges. The client understands that the fee does not include any additional parolee or probationer charges. The client understands that the fee does not include any additional ex-convict or ex-felon charges. The client understands that the fee does not include any additional fugitive or escapee charges. The client understands that the fee does not include any additional suspect or accused charges. The client understands that the fee does not include any additional defendant or plaintiff charges. The client understands that the fee does not include any additional juror or witness charges. The client understands that the fee does not include any additional prosecutor or lawyer charges. The client understands that the fee does not include any additional judge or magistrate charges. The client understands that the fee does not include any additional clerk or court official charges. The client understands that the fee does not include any additional bailiff or guard charges. The client understands that the fee does not include any additional constable or police officer charges. The client understands that the fee does not include any additional sergeant or inspector charges. The client understands that the fee does not include any additional detective or investigator charges. The client understands that the fee does not include any additional sheriff or coroner charges. The client understands that the fee does not include any additional justice of the peace or notary public charges. The client understands that the fee does not include any additional registrar or clerk of the court charges. The client understands that the fee does not include any additional tax collector or revenue officer charges. The client understands that the fee does not include any additional customs or excise officer charges. The client understands that the fee does not include any additional border patrol or immigration officer charges. The client understands that the fee does not include any additional coast guard or maritime police charges. The client understands that the fee does not include any additional air force or navy charges. The client understands that the fee does not include any additional army or marine charges. The client understands that the fee does not include any additional intelligence or secret service charges. The client understands that the fee does not include any additional spy or operative charges. The client understands that the fee does

the Service Brochure of PSS-provided quotation including any and all attorney's or other fees shall be deemed to constitute acceptance of the terms and conditions of the Service Brochure of PSS-provided quotation.



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

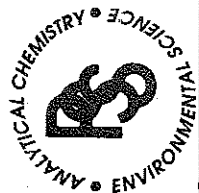
www.phaseonline.com
email: info@phaseonline.com

1 CLIENT: EPA		OFFICE LOC: Sparks, MD		PSS Work Order #: 10051907		PAGE 3 OF 5			
PROJECT MGR: (b) (4)		PHONE NO.: (410) 324-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe					
EMAIL: (b) (4)		FAX NO.: (410) 771-4204		Preservatives Used					
PROJECT NAME: NTCB		PROJECT NO.: 1462307		Analysis/Method Required (3)					
SITE LOCATION: Part Deposit		P.O. NO.:		No. CONTAINERS					
SAMPLERS:		(b) (4)		No. CONTAINERS					
LAB NO.		SAMPLE IDENTIFICATION		DATE		TIME		MATRIX (See Codes)	
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22	Dup-AOC-14-01								
23	Dup-AOC-14-02*								
24	AOC-28-27 MSD		1410						
25	AOC-28-19		1450						
26	AOC-28-20		1430						
27	AOC-28-28		1400						
28	AOC-28-34		1340						
29	AOC-28-33		1315						
30	AOC-28-29	V	1350	✓					
Relinquished By: (b) (4)		Date: 5/19/10		Time: 1040		Received By: (b) (4)			
Relinquished By: (3)		Date: 5-19-10		Time: 1140		Received By: (b) (4)			
Relinquished By: (4)		Date:		Time:		Received By:			

Requested Turnaround Time		# of Coolers: 5	
<input type="checkbox"/> 5-Day	<input type="checkbox"/> 3-Day	Custody Seal: ABS	
<input type="checkbox"/> Next Day	<input type="checkbox"/> Emergency	Ice Present: YES Temp: 0°C	
Data Deliverables Required:		Shipping Carrier: DIAL	
Special Instructions:			

REMARKS	
* If Chrome is identified above	
Residuals/Change	
Standard sample	
Should be analyzed for Hex Chrome	
and V. Please	
Inform EA	
before running!	

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order #: 10051907		PAGE 4 OF 5			
PROJECT MGR: [REDACTED]		PHONE NO.: (410) 329-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe					
EMAIL: [REDACTED]		FAX NO.: (410) 771-4704							
PROJECT NAME: 107CB		PROJECT NO.: 1462309							
SITE LOCATION: Port Deposit		P.O. NO.:							
SAMPLERS: [REDACTED]									
2 LAB NO.		SAMPLE IDENTIFICATION		DATE		TIME		MATRIX (See Codes)	
31	AOC-28-35		5/18/10		1325		S		
32	Dup-AOC-28-01		5/18/10		-		-		
33	Dup-AOC-28-04		5/18/10		-		-		
34	Dup-AOC-28-05		5/18/10		-		-		
35	Dup-AOC-28-06		5/18/10		-		-		
36	Dup-AOC-3-07		5/18/10		-		-		
37	Dup-AOC-3-08		5/18/10		-		-		
38	Dup-AOC-3-09		5/18/10		-		-		
39	Dup-AOC-3-10		5/18/10		-		-		
40	AOC-28-33/2-4		5/18/10		0900		-		
5 Relinquished By: [REDACTED]		Date: 5/19/10		Time: 1040		Received By: [REDACTED]		Date: [REDACTED]	
Relinquished By: [REDACTED]		Date: 5/19/10		Time: 1240		Received By: [REDACTED]		Date: [REDACTED]	
Relinquished By: (3)		Date:		Time:		Received By:		Date:	
Relinquished By: (4)		Date:		Time:		Received By:		Date:	
Preservatives Used: [REDACTED]									
Analysis/Method Required: [REDACTED]									
SAMPLE TYPE: [REDACTED]									
C = COMP G = GRAB									
No. CONTAINERS									
Requested Turnaround Time: [REDACTED]									
Data Deliverables Required: [REDACTED]									
Ice Present: [REDACTED]									
Shipping Carrier: [REDACTED]									
Special Instructions: [REDACTED]									
Remarks: [REDACTED]									

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The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorney's or other reasonable fees if collection becomes necessary.



PHASE SEPARATION SCIENCE, INC.

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email: info@phaseonline.com

1 CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order # 10051907		PAGE 5 OF 5	
PROJECT MGR: (b)(6)		PHONE NO.: (410) 324-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL: (b)(6)		PROJECT NO.: 140739		No. CONTAINERS			
PROJECT NAME: WTLB		P.O. NO.:		SAMPLE TYPE C = COMP G = GRAB			
SITE LOCATION: Port Deposit		P.O. NO.:		Preservatives Used Analysis Method Required (3)			
SAMPLERS: (b)(4)		DATE TIME		REMARKS			
LAB NO.		SAMPLE IDENTIFICATION		DATE TIME		MATRIX (See Codes)	
41 * AOC-3/34/2-4 MS/MSD 1450		5/19/10 1040		5/19/10 1040		5/19/10 1040	
5/19/10 1240		5/19/10 1240		5/19/10 1240		5/19/10 1240	
Relinquished By: (b)(4)		Date		Time		Received By: (b)(4)	
Relinquished By: (4)		Date		Time		Received By:	

Requested Turnaround Time <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input checked="" type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Other		# of Coolers: 5	
Data Deliverables Required:		Custody Seal: ARS	
Shipping Carrier: DIAL		Ice Present: Yes Temp: 0°C	

Special Instructions:
 * AOC-3-34/2-4 is MS/MSD ONLY for sample previously run

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Phase Separation Science, Inc

Sample Receipt Checklist

Wo Number 10051907

Client Name ARGO Systems

Project Name NTCB

Project Number 1462309

Disposal Date: 06/23/2010

Received By (b) (4)

Date Received 05/19/2010 12:40:00 PM

Delivered By Dial Courier

Tracking No Not Applicable

Logged In By (b) (4)

Shipping Container(s)

No. of Coolers 5
Custody Seals Absent
Seal Condition Absent

Ice Present
Temp (deg C) 0
Temp Blank Present No

Documentation

COC agrees with sample labels? ☒ Yes or ☐ No

Sampler Name: (b) (4)

Chain of Custody (COC) ☒ Yes or ☐ No

MD DW Cert. No : N/A

Sample Container

Appropriate for Specified Analysis? Yes ☒ No ☐

Intact? ☒

Labeled and Labels Legible ☒

Total No. of Samples Received 41

Custody Seal(s) Absent

Custody Seal(s) Intact? Not Applicable

Seal(s) Signed / Dated Not Applicable

Total No. of Containers Received 191

Preservation

	Yes	No	N/A
Metals (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cyanides (pH>12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfide (pH>9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC, COD, Phenols (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do VOA vials have zero headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling

Samples Inspected/Checklist Completed By: (b) (4)

Date: 5/19/10

PM Review and Approval: [Signature]

Date: 5/21/10

Printed: 05/19/2010 06:49 PM

Analytical Report for

ARGO Systems

Certificate of Analysis No.: 10052714

Project Manager: (b) (4)

Project Name : Port Deposit

Project Location: NTCB



June 24, 2010

Phase Separation Science, Inc.

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Baltimore, MD 21228

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PHASE SEPARATION SCIENCE, INC.



June 24, 2010

(b) (4)

ARGO Systems

1403 Madison Park Dr., Ste. 205
Glen Burnie, MD 21061

Reference: PSS Work Order No: **10052714**

Project Name : Port Deposit

Project Location: NTCB

Dear (b) (4) :

The attached Analytical and QC Summary lists the analytical results from the analyses performed on the samples received under the project name referenced above and identified with the Phase Separation Science (PSS) Work Order numbered **10052714**.

All work reported herein has been performed in accordance with referenced methodologies, PSS Standard Operating Procedures and the PSS Quality Assurance Manual. PSS is limited in liability to the actual cost of the sample analysis done.

PSS reserves the right to return any unused samples, extracts or related solutions. Otherwise, the samples are scheduled for disposal, without any further notice, on July 1, 2010. This includes any samples that were received with a request to be held but lacked a specific hold period. It is your responsibility to provide a written request defining a specific disposal date if additional storage is required. Upon receipt, the request will be acknowledged by PSS, thus extending the storage period.

This report shall not be reproduced except in full, without the written approval of an authorized PSS representative. A copy of this report will be retained by PSS for at least 10 years, after which time it will be disposed without further notice, unless prior arrangements have been made.

We thank you for selecting Phase Separation Science, Inc. to serve your analytical needs. If you have any questions concerning this report, do not hesitate to contact us at 410-747-8770 or info@phaseonline.com.

(b) (4)

Laboratory Manager



Case Narrative Summary

Client Name: ARGO Systems

Project Name: Port Deposit

Project ID: N/A

Work Order Number: 10052714

The following samples were received under chain of custody by Phase Separation Science (PSS) on 05/27/2010 at 02:35 pm

Lab Sample Id	Sample Id	Matrix	Date/Time Collected
10052714-001	AOC-45a-7	SOIL	05/13/2010 11:30
10052714-002	AOC-45a-17	SOIL	05/13/2010 11:00
10052714-003	AOC-45a-25	SOIL	05/13/2010 14:00
10052714-004	AOC-45a-28	SOIL	05/13/2010 11:40
10052714-005	AOC-45a-33	SOIL	05/14/2010 10:35
10052714-006	AOC-45a-39	SOIL	05/13/2010 13:00
10052714-007	AOC-45a-44	SOIL	05/14/2010 11:15
10052714-008	AOC-45a-47	SOIL	05/14/2010 10:45
10052714-009	AOC-45a-51	SOIL	05/13/2010 13:30
10052714-010	AOC-45a-54	SOIL	05/13/2010 11:50
10052714-011	AOC-45a-58	SOIL	05/14/2010 11:05
10052714-012	AOC-45a-69	SOIL	05/13/2010 14:15
10052714-013	AOC-45a-76	SOIL	05/13/2010 13:15
10052714-014	AOC-45a-81	SOIL	05/14/2010 11:35
10052714-015	AOC-45a-87	SOIL	05/14/2010 09:35
10052714-016	AOC-45a-89	SOIL	05/13/2010 14:45
10052714-017	AOC-45a-97	SOIL	05/14/2010 09:20
10052714-018	AOC-45a-103	SOIL	05/14/2010 09:50
10052714-019	AOC-45a-114	SOIL	05/14/2010 09:00
10052714-020	AOC-45a-120	SOIL	05/14/2010 10:05
10052714-021	AOC-1a(689)-1	SOIL	05/13/2010 11:15
10052714-022	AOC-1a(689)-3 MS/MSD	SOIL	05/13/2010 11:05
10052714-023	AOC-1a(689)-5	SOIL	05/13/2010 11:00
10052714-024	AOC-1a(689)-7	SOIL	05/13/2010 11:25
10052714-025	AOC-1a(689)-9	SOIL	05/13/2010 11:40
10052714-026	AOC-45c-3	SOIL	05/17/2010 10:05
10052714-027	AOC-45c-9	SOIL	05/17/2010 09:55
10052714-028	AOC-45c-13 MS/MSD	SOIL	05/17/2010 10:20
10052714-029	AOC-45c-16	SOIL	05/17/2010 09:40
10052714-030	AOC-45c-23	SOIL	05/17/2010 09:25
10052714-031	AOC-45c-25	SOIL	05/17/2010 10:40
10052714-032	AOC-45c-27	SOIL	05/17/2010 10:50
10052714-033	AOC-45c-39	SOIL	05/17/2010 11:05
10052714-034	AOC-45c-41 MS/MSD	SOIL	05/17/2010 11:20
10052714-035	AOC-45c-43	SOIL	05/17/2010 11:40
10052714-036	F-17	SOIL	05/26/2010 08:25
10052714-037	F-55	SOIL	05/26/2010 08:50
10052714-038	TG10-6	SOIL	05/26/2010 09:05
10052714-039	TG10-10	SOIL	05/26/2010 09:20
10052714-040	TG10-11	SOIL	05/26/2010 09:15
10052714-041	TG10-2	SOIL	05/26/2010 09:10
10052714-042	TG10-14	SOIL	05/26/2010 09:30
10052714-043	TG10-9	SOIL	05/26/2010 09:35



Case Narrative Summary

Client Name: ARGO Systems

Project Name: Port Deposit

Project ID: N/A

Work Order Number: 10052714

10052714-044	TG10-4 MS/MSD	SOIL	05/26/2010 09:40
10052714-045	F-47	SOIL	05/26/2010 09:50
10052714-046	TG8-14	SOIL	05/26/2010 10:15
10052714-047	TG8-13	SOIL	05/26/2010 10:20
10052714-048	TG8-8	SOIL	05/26/2010 10:30
10052714-049	TG8-9	SOIL	05/26/2010 10:35
10052714-050	TG8-4	SOIL	05/26/2010 10:40
10052714-051	TG8-5	SOIL	05/26/2010 10:45
10052714-052	TG8-10	SOIL	05/26/2010 10:50
10052714-053	F-40	SOIL	05/26/2010 11:00
10052714-054	TG9-3	SOIL	05/26/2010 11:10
10052714-055	TG9-2	SOIL	05/26/2010 11:15
10052714-056	F-27	SOIL	05/26/2010 13:20
10052714-057	F-21	SOIL	05/26/2010 13:35
10052714-058	F-16	SOIL	05/26/2010 13:45
10052714-059	F-30	SOIL	05/26/2010 14:10
10052714-060	F-51	SOIL	05/26/2010 14:20
10052714-061	F-58 MS/MSD	SOIL	05/26/2010 14:40
10052714-062	F-65	SOIL	05/26/2010 15:00
10052714-063	DUP-AOC1a(689)-01	SOIL	05/13/2010 00:00
10052714-064	DUP-AOC45a-03	SOIL	05/14/2010 00:00
10052714-065	DUP-AOC45a-04	SOIL	05/14/2010 00:00
10052714-066	DUP-GC-10	SOIL	05/26/2010 00:00
10052714-067	DUP-GC-11	SOIL	05/26/2010 00:00
10052714-068	DUP-GC-12	SOIL	05/26/2010 00:00
10052714-069	TG4-8	SOIL	05/27/2010 08:20
10052714-070	TG4-14	SOIL	05/27/2010 08:30
10052714-071	TG12-3	SOIL	05/27/2010 10:35
10052714-072	EB-13	WATER	05/27/2010 11:30
10052714-073	DUP-GC-13	SOIL	05/27/2010 00:00
10052714-074	AOC 1c-8	SOIL	05/10/2010 13:10
10052714-075	AOC 1c-17	SOIL	05/10/2010 12:55
10052714-076	AOC 1c-25	SOIL	05/10/2010 11:30
10052714-077	FR-104-1/0-2	SOIL	05/13/2010 13:30
10052714-078	FR-104-3/0-2	SOIL	05/13/2010 13:40
10052714-079	FR-104-6/0-2	SOIL	05/13/2010 15:05
10052714-080	FR-104-9/0-2	SOIL	05/13/2010 14:25
10052714-081	TG4-7	SOIL	05/27/2010 08:35
10052714-082	TG4-13	SOIL	05/27/2010 08:40
10052714-083	TG4-6	SOIL	05/27/2010 08:45
10052714-084	TG4-12	SOIL	05/27/2010 08:50
10052714-085	TG4-5	SOIL	05/27/2010 09:05
10052714-086	TG4-11	SOIL	05/27/2010 09:10
10052714-087	F-69	SOIL	05/27/2010 09:30
10052714-088	F-76	SOIL	05/27/2010 09:50



Case Narrative Summary

Client Name: ARGO Systems

Project Name: Port Deposit

Project ID: N/A

Work Order Number: 10052714

10052714-089	F-8	SOIL	05/27/2010 10:05
10052714-090	TG12-2	SOIL	05/27/2010 10:30
10052714-091	FR-104-10/0-2	SOIL	05/13/2010 14:40
10052714-092	FR-104-5/2-4	SOIL	05/13/2010 13:50

Please reference the Chain of Custody and Sample Receipt Checklist for specific container counts and preservatives. Any sample conditions not in compliance with sample acceptance criteria are described in the Sample Receipt Checklist.

Any holding time exceedances, deviations from the method specifications, regulatory requirements or variations to the procedures outlined in the PSS Quality Assurance Manual are outlined below.

Narrative Comments:

Effecting metals samples 34-92, CCV failure for Mercury at 81%, 85%, 86%, 84%, Thallium 84%, 85%, 86%, and Lead 89%, 88%, 89%; limits are 90-110%. A CCV failure for Copper of 111% recovery; limits 90-110%, effects samples 13-26 and 28. CCV failures for Beryllium at 79%, 78%, 74% and 70%; limits are 90-110%, effecting samples 1-12 and 22.

Notes:

1. The presence of common laboratory contaminants such as acetone, methylene chloride and phthalates, may be considered a possible laboratory artifact. Where observed, appropriate consideration of data should be taken.
2. The following analytical results are never reported on a dry weight basis: pH, flashpoint, moisture and paint filter test.
3. Drinking water samples collected for the purpose of compliance with SDWA may not be suitable for their intended use unless collected by a certified sampler [COMAR 26.08.05.07.C.2].

Standard Flags/Abbreviations:

- B A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- C Results Pending Final Confirmation.
- D The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- Fail The result exceeds the regulatory level for Toxicity Characteristic (TCLP) as cited in 40 CFR 261.24 Table 1.
- J The target analyte was positively identified below the reporting limit but greater than one-half of the reporting limit.
- ND Not Detected at or above the reporting limit.
- RL PSS Reporting Limit.
- U Not detected.

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052714

ARGO Systems, Glen Burnie, MD

June 24, 2010

Project Name: Port Deposit

Project Location: NTCB

Sample ID: AOC-1a(689)-1	Date/Time Sampled: 05/13/2010 11:15	PSS Sample ID: 10052714-021
Matrix: SOIL	Date/Time Received: 05/27/2010 14:35	% Solids: 91
PP MDE Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	mg/kg	2.6		1	1.3	06/02/10	06/07/10 20:30	1034
Arsenic	6.5	mg/kg	0.3		1	0.3	06/02/10	06/07/10 20:30	1034
Beryllium	ND	mg/kg	2.6		1	1.3	06/02/10	06/07/10 20:30	1034
Cadmium	ND	mg/kg	2.6		1	1.3	06/02/10	06/07/10 20:30	1034
Chromium	24	mg/kg	2.6		1	1.3	06/02/10	06/07/10 20:30	1034
Copper	9.1	mg/kg	2.6		1	1.3	06/02/10	06/07/10 20:30	1034
Lead	18	mg/kg	2.6		1	1.3	06/02/10	06/07/10 20:30	1034
Mercury	ND	mg/kg	0.10		1	0.05	06/02/10	06/07/10 20:30	1034
Nickel	8.7	mg/kg	2.6		1	1.3	06/02/10	06/07/10 20:30	1034
Selenium	ND	mg/kg	2.6		1	1.3	06/02/10	06/07/10 20:30	1034
Silver	ND	mg/kg	2.6		1	1.3	06/02/10	06/07/10 20:30	1034
Thallium	ND	mg/kg	0.5		1	0.3	06/02/10	06/07/10 20:30	1034
Zinc	25	mg/kg	10		1	5.2	06/02/10	06/07/10 20:30	1034

Sample ID: AOC-1a(689)-3 MS/MSD	Date/Time Sampled: 05/13/2010 11:05	PSS Sample ID: 10052714-022
Matrix: SOIL	Date/Time Received: 05/27/2010 14:35	% Solids: 88
PP MDE Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	mg/kg	2.3		1	1.1	06/01/10	06/02/10 18:01	1034
Arsenic	6.2	mg/kg	0.2		1	0.2	06/01/10	06/02/10 18:01	1034
Beryllium	ND	mg/kg	2.3		1	1.1	06/01/10	06/02/10 18:01	1034
Cadmium	ND	mg/kg	2.3		1	1.1	06/01/10	06/02/10 18:01	1034
Chromium	22	mg/kg	2.3		1	1.1	06/01/10	06/02/10 18:01	1034
Copper	10	mg/kg	2.3		1	1.1	06/01/10	06/02/10 18:01	1034
Lead	19	mg/kg	2.3		1	1.1	06/01/10	06/02/10 18:01	1034
Mercury	0.10	mg/kg	0.09		1	0.05	06/01/10	06/02/10 18:01	1034
Nickel	10	mg/kg	2.3		1	1.1	06/01/10	06/02/10 18:01	1034
Selenium	ND	mg/kg	2.3		1	1.1	06/01/10	06/02/10 18:01	1034
Silver	ND	mg/kg	2.3		1	1.1	06/01/10	06/02/10 18:01	1034
Thallium	0.29	mg/kg	0.5	J	1	0.2	06/01/10	06/02/10 18:01	1034
Zinc	29	mg/kg	9.1		1	4.6	06/01/10	06/02/10 18:01	1034

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052714

ARGO Systems, Glen Burnie, MD

June 24, 2010

Project Name: Port Deposit

Project Location: NTCB

Sample ID: AOC-1a(689)-5	Date/Time Sampled: 05/13/2010 11:00	PSS Sample ID: 10052714-023
Matrix: SOIL	Date/Time Received: 05/27/2010 14:35	% Solids: 82
PP MDE Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	mg/kg	2.5		1	1.2	06/02/10	06/07/10 20:37	1034
Arsenic	10	mg/kg	0.2		1	0.2	06/02/10	06/07/10 20:37	1034
Beryllium	ND	mg/kg	2.5		1	1.2	06/02/10	06/07/10 20:37	1034
Cadmium	ND	mg/kg	2.5		1	1.2	06/02/10	06/07/10 20:37	1034
Chromium	47	mg/kg	2.5		1	1.2	06/02/10	06/07/10 20:37	1034
Copper	21	mg/kg	2.5		1	1.2	06/02/10	06/07/10 20:37	1034
Lead	15	mg/kg	2.5		1	1.2	06/02/10	06/07/10 20:37	1034
Mercury	0.14	mg/kg	0.10		1	0.05	06/02/10	06/07/10 20:37	1034
Nickel	16	mg/kg	2.5		1	1.2	06/02/10	06/07/10 20:37	1034
Selenium	ND	mg/kg	2.5		1	1.2	06/02/10	06/07/10 20:37	1034
Silver	ND	mg/kg	2.5		1	1.2	06/02/10	06/07/10 20:37	1034
Thallium	0.33	mg/kg	0.5	J	1	0.2	06/02/10	06/07/10 20:37	1034
Zinc	34	mg/kg	9.9		1	5	06/02/10	06/07/10 20:37	1034

Sample ID: AOC-1a(689)-7	Date/Time Sampled: 05/13/2010 11:25	PSS Sample ID: 10052714-024
Matrix: SOIL	Date/Time Received: 05/27/2010 14:35	% Solids: 88
PP MDE Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	mg/kg	2.3		1	1.2	06/02/10	06/07/10 20:43	1034
Arsenic	5.0	mg/kg	0.2		1	0.2	06/02/10	06/07/10 20:43	1034
Beryllium	ND	mg/kg	2.3		1	1.2	06/02/10	06/07/10 20:43	1034
Cadmium	ND	mg/kg	2.3		1	1.2	06/02/10	06/07/10 20:43	1034
Chromium	19	mg/kg	2.3		1	1.2	06/02/10	06/07/10 20:43	1034
Copper	7.7	mg/kg	2.3		1	1.2	06/02/10	06/07/10 20:43	1034
Lead	46	mg/kg	2.3		1	1.2	06/02/10	06/07/10 20:43	1034
Mercury	ND	mg/kg	0.09		1	0.05	06/02/10	06/07/10 20:43	1034
Nickel	5.7	mg/kg	2.3		1	1.2	06/02/10	06/07/10 20:43	1034
Selenium	ND	mg/kg	2.3		1	1.2	06/02/10	06/07/10 20:43	1034
Silver	ND	mg/kg	2.3		1	1.2	06/02/10	06/07/10 20:43	1034
Thallium	ND	mg/kg	0.5		1	0.2	06/02/10	06/07/10 20:43	1034
Zinc	45	mg/kg	9.3		1	4.6	06/02/10	06/07/10 20:43	1034

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BALTIMORE, MD 21228
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800-932-9047
FAX 410-788-8723

PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052714

ARGO Systems, Glen Burnie, MD

June 24, 2010

Project Name: Port Deposit

Project Location: NTCB

Sample ID: AOC-1a(689)-9	Date/Time Sampled: 05/13/2010 11:40	PSS Sample ID: 10052714-025
Matrix: SOIL	Date/Time Received: 05/27/2010 14:35	% Solids: 87
PP MDE Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	mg/kg	2.8		1	1.4	06/02/10	06/07/10 20:50	1034
Arsenic	4.4	mg/kg	0.3		1	0.3	06/02/10	06/07/10 20:50	1034
Beryllium	ND	mg/kg	2.8		1	1.4	06/02/10	06/07/10 20:50	1034
Cadmium	ND	mg/kg	2.8		1	1.4	06/02/10	06/07/10 20:50	1034
Chromium	22	mg/kg	2.8		1	1.4	06/02/10	06/07/10 20:50	1034
Copper	8.9	mg/kg	2.8		1	1.4	06/02/10	06/07/10 20:50	1034
Lead	16	mg/kg	2.8		1	1.4	06/02/10	06/07/10 20:50	1034
Mercury	ND	mg/kg	0.11		1	0.06	06/02/10	06/07/10 20:50	1034
Nickel	5.6	mg/kg	2.8		1	1.4	06/02/10	06/07/10 20:50	1034
Selenium	ND	mg/kg	2.8		1	1.4	06/02/10	06/07/10 20:50	1034
Silver	ND	mg/kg	2.8		1	1.4	06/02/10	06/07/10 20:50	1034
Thallium	ND	mg/kg	0.6		1	0.3	06/02/10	06/07/10 20:50	1034
Zinc	20	mg/kg	11		1	5.6	06/02/10	06/07/10 20:50	1034

Sample ID: AOC-45c-3	Date/Time Sampled: 05/17/2010 10:05	PSS Sample ID: 10052714-026
Matrix: SOIL	Date/Time Received: 05/27/2010 14:35	% Solids: 89
PP MDE Metals	Analytical Method: SW846 6020A	Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	mg/kg	2.5		1	1.3	06/02/10	06/07/10 20:57	1034
Arsenic	2.9	mg/kg	0.3		1	0.3	06/02/10	06/07/10 20:57	1034
Beryllium	ND	mg/kg	2.5		1	1.3	06/02/10	06/07/10 20:57	1034
Cadmium	ND	mg/kg	2.5		1	1.3	06/02/10	06/07/10 20:57	1034
Chromium	11	mg/kg	2.5		1	1.3	06/02/10	06/07/10 20:57	1034
Copper	5.2	mg/kg	2.5		1	1.3	06/02/10	06/07/10 20:57	1034
Lead	27	mg/kg	2.5		1	1.3	06/02/10	06/07/10 20:57	1034
Mercury	0.05	mg/kg	0.10	J	1	0.05	06/02/10	06/07/10 20:57	1034
Nickel	6.6	mg/kg	2.5		1	1.3	06/02/10	06/07/10 20:57	1034
Selenium	ND	mg/kg	2.5		1	1.3	06/02/10	06/07/10 20:57	1034
Silver	ND	mg/kg	2.5		1	1.3	06/02/10	06/07/10 20:57	1034
Thallium	ND	mg/kg	0.5		1	0.3	06/02/10	06/07/10 20:57	1034
Zinc	28	mg/kg	10		1	5.1	06/02/10	06/07/10 20:57	1034

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PHASE SEPARATION SCIENCE, INC.



CERTIFICATE OF ANALYSIS

No: 10052714

ARGO Systems, Glen Burnie, MD

June 24, 2010

Project Name: Port Deposit

Project Location: NTCB

Sample ID: DUP-AOC1a(689)-01	Date/Time Sampled: 05/13/2010 00:00	PSS Sample ID: 10052714-063
Matrix: SOIL	Date/Time Received: 05/27/2010 14:35	% Solids: 90

PP MDE Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	mg/kg	2.3		1	1.1	06/02/10	06/06/10 02:03	1034
Arsenic	6.4	mg/kg	0.2		1	0.2	06/02/10	06/06/10 02:03	1034
Beryllium	ND	mg/kg	2.3		1	1.1	06/02/10	06/06/10 02:03	1034
Cadmium	ND	mg/kg	2.3		1	1.1	06/02/10	06/06/10 02:03	1034
Chromium	23	mg/kg	2.3		1	1.1	06/02/10	06/06/10 02:03	1034
Copper	9.5	mg/kg	2.3		1	1.1	06/02/10	06/06/10 02:03	1034
Lead	14	mg/kg	2.3		1	1.1	06/02/10	06/06/10 02:03	1034
Mercury	0.05	mg/kg	0.09	J	1	0.05	06/02/10	06/06/10 02:03	1034
Nickel	8.3	mg/kg	2.3		1	1.1	06/02/10	06/06/10 02:03	1034
Selenium	ND	mg/kg	2.3		1	1.1	06/02/10	06/06/10 02:03	1034
Silver	ND	mg/kg	2.3		1	1.1	06/02/10	06/06/10 02:03	1034
Thallium	ND	mg/kg	0.5		1	0.2	06/02/10	06/06/10 02:03	1034
Zinc	19	mg/kg	9.1		1	4.6	06/02/10	06/06/10 02:03	1034

Sample ID: DUP-AOC45a-03	Date/Time Sampled: 05/14/2010 00:00	PSS Sample ID: 10052714-064
Matrix: SOIL	Date/Time Received: 05/27/2010 14:35	% Solids: 83

PP MDE Metals

Analytical Method: SW846 6020A

Preparation Method: SW846 3050B

	Result	Units	RL	Flag	Dil	LOD	Prepared	Analyzed	Analyst
Antimony	ND	mg/kg	2.6		1	1.3	06/02/10	06/06/10 02:30	1034
Arsenic	0.72	mg/kg	0.3		1	0.3	06/02/10	06/06/10 02:30	1034
Beryllium	ND	mg/kg	2.6		1	1.3	06/02/10	06/06/10 02:30	1034
Cadmium	ND	mg/kg	2.6		1	1.3	06/02/10	06/06/10 02:30	1034
Chromium	5.5	mg/kg	2.6		1	1.3	06/02/10	06/06/10 02:30	1034
Copper	11	mg/kg	2.6		1	1.3	06/02/10	06/06/10 02:30	1034
Lead	18	mg/kg	2.6		1	1.3	06/02/10	06/06/10 02:30	1034
Mercury	ND	mg/kg	0.10		1	0.05	06/02/10	06/06/10 02:30	1034
Nickel	3.9	mg/kg	2.6		1	1.3	06/02/10	06/06/10 02:30	1034
Selenium	ND	mg/kg	2.6		1	1.3	06/02/10	06/06/10 02:30	1034
Silver	ND	mg/kg	2.6		1	1.3	06/02/10	06/06/10 02:30	1034
Thallium	ND	mg/kg	0.5		1	0.3	06/02/10	06/06/10 02:30	1034
Zinc	27	mg/kg	10		1	5.2	06/02/10	06/06/10 02:30	1034



SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EPA		OFFICE LOC: Sparks, MD		PSS Work Order #: 10052714		PAGE 1 OF 10					
PROJECT MGR: [Redacted]		PHONE NO.: (410) 329-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe							
EMAIL: [Redacted]		FAC/FAX NO.: (410) 771-4204		No. CONTAINERS							
PROJECT NAME: Port Deposit		PROJECT NO.:		SAMPLE TYPE							
SITE LOCATION: NTCB		P.O. NO.:		C = COMP							
SAMPLERS: [Redacted]				G = GRAB							
2		LAB NO.		SAMPLE IDENTIFICATION		DATE		TIME		MATRIX (See Codes)	
1		AOC-45a-7 *		5/13/10		1130		5		F	
2		AOC-45a-17 *		5/13/10		1100					
3		AOC-45a-25 *		5/13/10		1400					
4		AOC-45a-28 *		5/13/10		1140					
5		AOC-45a-33 *		5/14/10		1035					
6		AOC-45a-39 *		5/13/10		1300					
7		AOC-45a-44 *		5/14/10		1115					
8		AOC-45a-47 *		5/14/10		1045					
9		AOC-45a-51 *		5/14/10		1320					
10		AOC-45a-54 *		5/14/10		1150					
5		Relinquished By: [Redacted]		Date: 5/27/10		Time: 1805		Received By: [Redacted]		Time: [Redacted]	
6		Relinquished By: [Redacted]		Date: 5-27-10		Time: 1435		Received By: [Redacted]		Time: [Redacted]	
7		Relinquished By: (3)		Date:		Time:		Received By:		Time:	
8		Relinquished By: (4)		Date:		Time:		Received By:		Time:	

PRESERVATIVES USED		ANALYSIS METHOD REQUIRED		REMARKS	
PRL Metals		③		* If Chrome is identified above Residual Cleanup Standard Sample should be analyzed for Hex Chrome. Mn and V. Please inform EA before running!	

Requested Turnaround Time		# of Coolers: 4	
<input type="checkbox"/> 5-Day	<input type="checkbox"/> 3-Day	<input type="checkbox"/> 2-Day	Custody Seal: ABS
<input type="checkbox"/> Next Day	<input type="checkbox"/> Emergency	<input checked="" type="checkbox"/> Other	Ice Present: YES Temp: 10°C
Data Deliverables Required:		Shipping Carrier: DIAL	
Special Instructions:			

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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order # 10052714		PAGE 3 OF 10	
PROJECT MGR: (b) (4)		PHONE NO.: (410) 329-5114		Matrix Codes: SW-Surface Wtr DW-Drinking Wtr GW-Ground Wtr WW-Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL: (b) (4) Quest.com		FAX NO.: (410) 771-4204		Preservatives Used: PPZ Metal G			
PROJECT NAME: NTCB		PROJECT NO.: 146239		SAMPLE TYPE: C = COMP			
SITE LOCATION: Part Deposit		P.O. NO.:		G = GRAB			
SAMPLERS: (b) (4)							
2		3		4		5	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	CONTAINER No.	SAMPLE TYPE	REMARKS
21	* AOC 1a (689)-1	5/13/10	1115	S	1	G	* H Change is identified above
22	* AOC 1a (689)-3	5/13/10	1105	S	3	G	Residential Cleanup
23	* AOC 1a (689)-5	5/13/10	1100	S	1	G	Standard Sample
24	* AOC 1a (689)-7	5/13/10	1125	S	1	G	Shake be and liquid
25	* AOC 1a (689)-9	5/13/10	1140	S	1	G	for Her Change
26	* AOC 45c-3	5/17/10	1005	S	3	G	Round V. Phase
27	* AOC 45c-9	5/17/10	0955	S	1	G	inform EA
28	* AOC 45c-13	5/17/10	1020	S	3	G	before running!
29	* AOC 45c-16	5/17/10	0940	S	1	G	
30	* AOC 45c-23	5/17/10	0925	S	1	G	
Relinquished By: (b) (4)		Date: 5/27/10	Time: 1305	Received By: (b) (4)	Requested Turnaround Time: <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other		
Relinquished By: (b) (4)		Date: 5/27/10	Time: 1435	Received By: (b) (4)	Data Deliverables Required: <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Other		
Relinquished By: (b) (4)		Date: 5/27/10	Time: 1435	Received By: (b) (4)	Ice Present: YES Temp: 10°C		
Relinquished By: (b) (4)		Date: 5/27/10	Time: 1435	Received By: (b) (4)	Shipping Carrier: DIAL		
Special Instructions:							

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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

PHASE SEPARATION SCIENCE, INC.

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1		CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order # 10052714		PAGE 4 OF 19	
PROJECT MGR:		PHONE NO.: (410) 329-5114		PROJECT NO.: 410-771-4204		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL: [REDACTED]		FAX NO.: (410) 771-4204		PROJECT NO.: 410-771-4204		PRESERVATIVES USED			
PROJECT NAME: WTCB		PROJECT NO.: 410-771-4204		PROJECT NO.: 410-771-4204		ANALYSIS METHOD REQUIRED			
SITE LOCATION: Part Deposit		P.O. NO.:		P.O. NO.:		SAMPLE TYPE			
SAMPLERS:		[REDACTED]		[REDACTED]		C = COMP			
[REDACTED]		[REDACTED]		[REDACTED]		G = GRAB			
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	CONTAINER	ANALYSIS METHOD REQUIRED	REMARKS		
31	AOL45C-25	5/17/10	1040	S	1	X	Identified as		
32	AOL45C-27		1050		1	X	Residential Cleanup		
33	AOL45C-39		1105		3	X	Standard sample		
34	AOL45C-41 MS/MSD		1120		1	X	Should be analyzed		
35	AOL45C-43		1140		1	X	for Hex Chlora-		
36	F-17	5/20/10	0825		1	X	Mn and V. Please		
37	F-55		0850		1	X	Intermittent		
38	TG-10-6		0905		1	X	before running		
39	TG-10-10		0920		1	X			
40	TG-10-11		0915		1	X			

5		Relinquished By: (4)		Time 5/27/10 1305		Date 5/27/10 1430		Time 5/27/10 1430		Date 5/27/10 1430		Time 5/27/10 1430		Date 5/27/10 1430		Time 5/27/10 1430		Date 5/27/10 1430	
Relinquished By: (4)		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]	
Relinquished By: (4)		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]	
Relinquished By: (4)		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]	

4		Requested Turnaround Time		5-Day		3-Day		Emergency		Other		# of Coolers: 4		Custody Seal: ABS		Ice Present: YES		Temp: 10°C		Shipping Carrier: DIAL	
Data Deliverables Required:		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]	
Special Instructions:		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]	

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[illegible]

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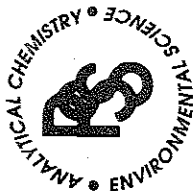
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PHASE SEPARATION SCIENCE, INC.

1		CLIENT: EPA	OFFICE LOC. Sparks, MD	PSS Work Order # 005271	PAGE 0 OF 10
PROJECT MGR: [REDACTED]		PHONE NO.: (410) 329-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe	
EMAIL: [REDACTED]		FAX NO.: (410) 771-4204		Preservatives Used: [REDACTED]	
PROJECT NAME: NTCB		PROJECT NO.: 1462309		Analysis/Method Required: 3	
SITE LOCATION: Part Deposit		P.O. NO.:		SAMPLE TYPE: C=COMP G=GRAB	
SAMPLERS: [REDACTED]		[REDACTED]		CONTAINERS	
2		3		4	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	REMARKS
51	T6-8-5	5/24/10	1045	S	
52	T6-8-10		1050		
53	F-40		1100		
54	T6-9-3		1110		
55	T6-9-2		1115		
56	F-27		1320		
57	F-21		1335		
58	F-16		1345		
59	F-30		1410		
60	F-51		1420		
5		6		7	
Relinquished By: [REDACTED]	Date: 5/24/10	Time: 1305	Received By: [REDACTED]	Requested Turnaround Time: 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Other <input type="checkbox"/>	# of Coolers: 4
Relinquished By: [REDACTED]	Date: 5/24/10	Time: 1435	Received By: [REDACTED]	Custody Seal: ABS	Ice Present: YES Temp: 12
Relinquished By: (3)	Date:	Time:	Received By:	Data Deliverables Required:	Shipping Carrier: DIAL
Relinquished By: (4)	Date:	Time:	Received By:	Special Instructions:	

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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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1 CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order # 10052714		PAGE 7 OF 10			
PROJECT MGR: [REDACTED]		PHONE NO.: (410) 329-5714		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe					
EMAIL: [REDACTED]		FAX NO.: (410) 771-4204		Preservatives Used					
PROJECT NAME: NTCB		PROJECT NO. 1462309		SAMPLE TYPE					
SITE LOCATION: Port Deposit		P.O. NO.:		C = COMP					
SAMPLERS: [REDACTED]				G = GRAB					
LAB NO.		SAMPLE IDENTIFICATION		DATE		TIME		MATRIX (See Codes)	
601		F-58 MB/mad		5/26/10		1440		S	
602		F-65		↓		1500		↓	
603		Dup-AOC45a-01		5/13/10		-		-	
604		Dup-AOC45a-03		5/14/10		-		-	
605		Dup-AOC45a-04		↓		-		-	
606		Dup-GC-10		5/24/10		-		-	
607		Dup-GC-11		↓		-		-	
608		Dup-GC-12		↓		-		-	
609		TG-4-8		5/27/10		0630		↓	
701		TG-4-14		↓		0630		↓	
5		[REDACTED]		5/27/10		1305		(b) (4)	
Relinquished By: [REDACTED]		[REDACTED]		5-27-10		1435		(b) (4)	
Relinquished By: (3)		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]	
Relinquished By: (4)		[REDACTED]		[REDACTED]		[REDACTED]		[REDACTED]	

Requested Turnaround Time		# of Coolers: 4	
<input type="checkbox"/> 5-Day	<input type="checkbox"/> 3-Day	<input type="checkbox"/> 2-Day	Custody Seal: ABS
<input type="checkbox"/> Next Day	<input type="checkbox"/> Emergency	<input type="checkbox"/> Other	Ice Present: PRES Temp: 1°
Data Deliverables Required:		Shipping Carrier: DIAL	
Special Instructions:			

CONTAINERS		REMARKS	
No.			
C			
O			
N			
T			
A			
I			
N			
E			
R			
S			

6630 Baltimore National Pike • Route 40 West • Baltimore, Maryland 21228 • (410) 747-8770 • (800) 932-9047 • Fax (410) 788-8723
The client (Client Name), by signing, or having client's agent sign, this "Sample Chain of Custody/Agreement Form", agrees to pay for the above requested services per the latest version of the Service Brochure or PSS-provided quotation including any and all attorneys or other reasonable fees if collection becomes necessary.

SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

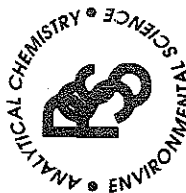
www.phaseonline.com
email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

[illegible]

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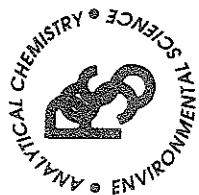
SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EPA		OFFICE LOC. Sparks, MD		PSS Work Order #: 10052714		PAGE 9 OF 10	
PROJECT MGR: [REDACTED]		PHONE NO.: (410) 329-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W= Wipe			
EMAIL: [REDACTED]		PROJECT NO.: 410.771-4204		Preservatives Used			
PROJECT NAME: NTCB		PROJECT NO.: 1462359		Analysis/Method Required (3)			
SITE LOCATION: Port Deposit		P.O. NO.:		SAMPLE TYPE C = COMP G = GRAB			
SAMPLERS:		DATE		TIME		MATRIX (See Codes)	
2		3		4		5	
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	REMARKS			
81	T64-7	5/27/10	0835	Pesticides			
82	T64-13		0840				
83	T64-6		0845				
84	T64-12		0850				
85	T64-5		0905				
86	T64-11		0910				
87	F-69		0930				
88	F-76		0950				
89	F-8		1005				
90	T64-2		1030				
Relinquished By: [REDACTED]		Date: 5/27/10	Time: 1305	Requested Turnaround Time <input type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Other			
Relinquished By: [REDACTED]		Date: 5-27-10	Time: 1435	Data Deliverables Required:			
Relinquished By: (3)		Date:	Time:	Ice Present: YES Temp: 1°C			
Relinquished By: (4)		Date:	Time:	Shipping Carrier: DIAL			
Relinquished By: (4)		Date:	Time:	Special Instructions:			

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SAMPLE CHAIN OF CUSTODY/AGREEMENT FORM

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email: info@phaseonline.com

PHASE SEPARATION SCIENCE, INC.

1 CLIENT: EPA OFFICE LOC: Sparks, MD		PSS Work Order #: 10052714 PAGE 10 OF 10			
PROJECT MGR: (b) (4) PHONE NO.: (410) 529-5114		Matrix Codes: SW=Surface Wtr DW=Drinking Wtr GW=Ground Wtr WW=Waste Wtr O=Oil S=Soil WL=Waste Liquid WS=Waste Solid W=Wipe			
EMAIL: (b) (4) @ Quantum FAX NO.: (410) 771-4204		Preservatives Used: None			
PROJECT NAME: NTCB PROJECT NO.: 1462309		Analysis Method Required: ③			
SITE LOCATION: Port Deposit P.O. NO.:		SAMPLE TYPE: C = COMP			
SAMPLERS: (b) (4)		G = GRAB			
2		CONTAINERS			
LAB NO.	SAMPLE IDENTIFICATION	DATE	TIME	MATRIX (See Codes)	REMARKS
91	FL-104-10/0-2	5/21/10	1440	S	7
92	FL-104-5/2-4	5/27/10	1350	S	7
5					
Relinquished By: (b) (4)	Date: 5/21/10	Time: 1300	Requested Turnaround Time: <input checked="" type="checkbox"/> 5-Day <input type="checkbox"/> 3-Day <input type="checkbox"/> 2-Day <input type="checkbox"/> Next Day <input type="checkbox"/> Emergency <input checked="" type="checkbox"/> Other		
Relinquished By: (b) (4)	Date: 5/27/10	Time: 1435	Data Deliverables Required:		
Relinquished By: (b) (4)	Date:	Time:	Ice Present: YES Temp: 1°C		
Relinquished By: (b) (4)	Date:	Time:	Shipping Carrier: DIAL		
Relinquished By: (b) (4)	Date:	Time:	Special Instructions:		

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Phase Separation Science, Inc

Sample Receipt Checklist

Wo Number 10052714

Client Name ARGO Systems

Project Name Port Deposit

Project Number N/A

Disposal Date: 07/01/2010

Received By (b) (4)

Date Received 05/27/2010 02:35:00 PM

Delivered By Dial Courier

Tracking No Not Applicable

Logged In By (b) (4)

Shipping Container(s)

No. of Coolers 4

Custody Seals Absent

Seal Condition Absent

Ice Present

Temp (deg C) 1

Temp Blank Present No

Documentation

COC agrees with sample labels? ☒ Yes or ☐ No

Sampler Name: (b) (4)

Chain of Custody (COC) ☒ Yes or ☐ No

MD DW Cert. No : N/A

Sample Container

Appropriate for Specified Analysis? Yes ☒ No ☐

Intact? ☒ ☐

Labeled and Labels Legible ☒ ☐

Total No. of Samples Received 92

Custody Seal(s) Absent

Custody Seal(s) Intact? Not Applicable

Seal(s) Signed / Dated Not Applicable

Total No. of Containers Received 103

Preservation

	Yes	No	N/A
Metals (pH<2)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cyanides (pH>12)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Sulfide (pH>9)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOC, COD, Phenols (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
TOX, TKN, NH3, Total Phos (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
VOC, BTEX (VOA Vials Rcvd Preserved) (pH<2)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Do VOA vials have zero headspace?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments: (Any "No" response must be detailed in the comments section below.)

For any improper preservation conditions, list sample ID, preservative added (reagent ID number) below as well as documentation of any client notification as well as client instructions. Samples for pH, chlorine and dissolved oxygen should be analyzed as soon as possible, preferably in the field at the time of sampling.

Samples Inspected/Checklist Completed By: (b) (4)

Date: 5/27/10

PM Review and Approval: [Signature]

Date: 5/28/10

Printed: 05/27/2010 06:52 PM